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1961

CLEVELAND COLLEGE



**COURSES for
COLLEGE CREDIT**

winter session

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WESTERN RESERVE UNIVERSITY

**NEWTON D. BAKER
MEMORIAL BUILDING
CLEVELAND 6, OHIO**

A Few Words from the President of Western Reserve University

Cleveland College is based upon the belief that education is a process that should continue throughout the entire life of an individual. The growing and maturing individual develops new interests, is faced with new opportunities and new problems. He must continue to learn new facts, new skills, and new techniques.

Cleveland College, organized as the unit of Western Reserve University to provide high quality university educational opportunities for adults, presents in this booklet all its credit courses for the coming semester. I hope you will find herein a course or courses which will be stimulating and challenging.

John S. Millis,
President



How to use this Booklet

If you are interested in enrolling in courses for college credit or as part of a program of study leading to a degree . . .

READ PAGES 3 to 8 inclusive and see description of courses beginning on PAGE 9.

If you wish to enroll by mail see the mail enrollment form on PAGE 33.

In addition to the credit courses described in this booklet, Cleveland College through its Division of General Studies offers a variety of courses, institutes, workshops, lectures, and discussion programs for adults who wish to pursue their education at the University-level but who are not concerned to accumulate college credits. For information call the Division of General Studies, CEdar 1-7700, ext. 111, or write for the Division of General Studies Booklet, Cleveland College, Newton D. Baker Building, Euclid Avenue at Adelbert Road, Cleveland 6, Ohio.

CLEVELAND COLLEGE OF WESTERN RESERVE UNIVERSITY

JOHN S. DIEKHOFF, Ph.D., L.H.D., Dean

LESLIE E. BROWN, M.A., Dean of Administration

ALLAN F. PFLEGER, M.A., Assistant Dean and Director, Division of General Studies

WINIFRED S. KINDIG, B.A., Director of Counseling



Office of the Deans and Educational Counselors,
110 Newton D. Baker Memorial Building

Office of the Division of General Studies
116 Newton D. Baker Memorial Building

Opportunities and Challenges

Educational opportunities for adults are offered in University courses on a full-time or part-time basis, morning, afternoon or evening, through Cleveland College of Western Reserve University.

Men and women, employed full-time or part-time or not at all, may enroll in credit courses with or without being candidates for degrees. A schedule of interesting courses (one or more) can be worked out so as not to conflict with work or other schedules.

Four hundred courses for credit are offered, mornings, afternoons and evenings, mostly on the University campus at Euclid Avenue and Adelbert Road (both north and south of the avenue) . . . Evening courses are offered in the west side Center at Lakewood High School. Two college credit courses are offered by TV on WEWS, Channel 5.

All day and evening classes in courses for credit are conducted by the University faculty in Arts and Sciences and in Business. Winter Session begins September 19, 1961. Students can register by three methods. See "How to Enroll and Register" on page 5. Alert Americans are challenged by opportunities for greater knowledge and intellectual stimulus. In this booklet are many interesting challenges.

Calendar

COURSES FOR CREDIT AND DEGREE PROGRAMS

WINTER SESSION 1961-1962

REGISTRATION

September 15, 16, 18, Friday, Saturday, Monday

Final Day for Mail Registration — Postmarked Saturday,
September 2

WINTER SESSION CLASSES BEGIN

September 19, Tuesday

THANKSGIVING RECESS

November 22-26, Wednesday noon to Sunday

CHRISTMAS RECESS

December 21 - January 4, Thursday to Thursday

LAST DAY OF CLASSES

January 17, Wednesday

FINAL EXAMINATIONS

January 18-26, Thursday to Friday

WINTER SESSION ENDS

January 27, Saturday

CONVOCATION FOR AWARDING DEGREES

January 31, Wednesday

SPRING SESSION CLASSES BEGIN

February 6, Tuesday

For Registration Schedule See Page 5.

This Booklet

will acquaint you with the program of Cleveland College and tells how you may enroll for a single course or plan a program of studies designed to continue your education. It also contains regulations which you as a University student should know, together with information about University services which you will be using during your stay at Cleveland College.

HOW TO CHOOSE COURSES OF STUDY

This section of the folder contains a description of all undergraduate courses offered in the Winter Session of 1961-62. Courses are classified ARTS AND SCIENCES, LIBRARY SCIENCE, and BUSINESS ADMINISTRATION. Departments are arranged alphabetically under these categories.

We suggest that you run through the courses quickly and make a note of the fields in which you might like to study. Then, go back and carefully consider the courses in those fields.

COUNSELING

Educational Counseling: After you have examined the course offerings you will need to avail yourself of the services of the Cleveland College Educational Counseling Office. The Educational Counselors will help you select a single course or a group of courses designed to satisfy a specific objective. The Counselors are also prepared to help you plan a program of study which will lead to a Bachelor's degree or satisfy the requirements for pre-professional study in many fields. Persons who desire information regarding their educational plans or who wish to enroll for the first time are urged to request an appointment with an Educational Counselor. There is no obligation. Telephone CEdar 1-7700, Extension 613.

Veterans Counseling: Veterans studying under PL550 should consult the Veterans Counselor regarding any questions they have about their eligibility under the law. The Veterans Counselor is located in Room 8B, Adelbert Main Bldg. Telephone CEdar 1-7700, extension 294. During the regular registration dates the Veterans Counselor will be located in the Adelbert Gymnasium.

Who Can Take Courses . . .

ADMISSION INFORMATION

Students may enroll at Cleveland College either on a part-time or full-time basis. Students may attend either day or evening classes, or both.

Undergraduate students wishing to attend on a PART-TIME basis (less than twelve hours of credit) should make initial inquiry at the Cleveland College Counseling Office, Newton D. Baker Building, Cleveland 6, Ohio (CEdar 1-7700, extension 613).

Undergraduate students wishing to attend on a FULL-TIME basis should communicate with the University Director of Admission, Western Reserve University, Cleveland 6, Ohio (CEdar 1-7700, extension 721). Early application is urged in order that the University may give adequate consideration to all credentials.

There are three categories of admission to Cleveland College.

As Candidates for the Baccalaureate Degree:

Admission of High School Graduates: Graduates of approved secondary schools will be considered for admission provided their academic records meet the approval of the University Committee on Admission and provided they qualify on the basis of scholastic aptitude tests.

Admission of Transfer Students from other Colleges: Applicants possessing satisfactory records at other colleges of recognized standing will be considered for admission provided the college in question forwards an official transcript of record bearing a statement of honorable dismissal. Successful completion of a scholastic aptitude test may be required.

As Non-Degree Students:

Students may register through Cleveland College in credit courses as Non-Degree Students provided they are 21 years of age or over, and provided they have not attended another college or university. (Students who have previously attended another college or university must apply for degree candidacy). Non-degree students may become eligible for degree status when they meet satisfactorily the formal requirements for admission.

As Transient Students:

A Transient Student is defined as one who has begun his education at another

college or university to which he intends to return. Such students may be enrolled at Cleveland College as Transient Students for one semester on the basis of a letter from the Registrar of the home college stating that the student is in good standing. The application form for enrollment as a Transient Student may be obtained from the Educational Counseling Office of Cleveland College, Newton D. Baker Building.

As Auditors:

Students may register as Auditors, a status entitling them to attend classes but not to receive a grade or credit. Auditors must declare themselves at the time of registration. Students enrolled as Auditors pay the same fees as other students who are enrolled for credit.

TUITION AND FEES

Tuition: The cost of each course is indicated immediately after the description of the course. Tuition is computed at the rate of \$32.00 for each credit hour. Tuition and fees are due at the time of Registration. Checks and money orders should be made payable to Western Reserve University for the exact amount due.

Tuition Payment Plans: Arrangements may be made for the payment of tuition in installments. A slight carrying charge is added for deferred payments.

PLAN	Carrying Charge	DATES PAYMENTS DUE			
		1st Payment	2nd	3rd	4th
Two payments	\$.50	At Registration	Oct. 15		
Three payments	1.00	At Registration	Oct. 15	Nov. 15	
Four payments	1.50	At Registration	Oct. 15	Nov. 15	Dec. 15

The office of the University Cashier, located in Room 6, Adelbert Main Building, is open Monday through Thursday until 7:00 p.m., Friday until 5:00 p.m. Students are expected to meet their payments without notice on dates due.

Veterans: Veterans who qualify under Public Law 550 make tuition payments as do other students: the total sum at Registration time or installments under the tuition payment plan. After certification they will be reimbursed monthly by the government.

How to Enroll and Register . . .

Three methods of registration have been devised for your convenience.

I. Pre-Registration Counseling: Beginning August 15, 1961, the Cleveland College counselors will be available for appointments to assist in program planning for the Winter term, which begins in September. At these interviews, selections of courses may be made and the student may then complete his registration by mail if he wishes. For appointments call CEder 1-7700, extension 613.

II. Mail Registration: To initiate registration by mail, students may fill out the form on Page 33 and mail it to Cleveland College. When the courses have been approved the student will receive the forms by mail. For some, it will be necessary to come in for an interview before approval. When the student receives the "mail packet" (either by mail or in person) he can then return it to the Registrar, Western Reserve University, Cleveland 6, Ohio with his check or money order and his class cards will be mailed to him.

All requests for mail registration must be postmarked no later than Saturday, September 2, 1961.

All mail packets to the Registrar must be postmarked no later than Saturday, September 9, 1961.

III. At Registration Time: Cleveland College students may register on the dates, hours and places set forth in the Registration Schedule at right. Students wishing to register at the University Campus must call the Office, CEder 1-7700, extension 613, for an appointment. Appointment cards enable students to register with a maximum of convenience and a minimum of delay. Appointments are not required for students registering at the Lakewood Center.

Late Registration: It is to the student's advantage to enroll before September 19, the first day of classes. However, late registrations will be accepted until Monday, September 25. An additional fee will be charged. Contact the Educational Counseling Office for late registration.

Withdrawals: To withdraw from a course or from the University, a student must complete an official withdrawal card and present it to the Dean of the College for approval. Those who withdraw after the 5th week in which classes are held are responsible for the full tuition. Those who withdraw earlier pay a portion of the tuition as outlined in the Undergraduate Bulletin and on the Withdrawal and Refund notice given each student at the final step of Registration.

CLEVELAND COLLEGE REGISTRATION SCHEDULE FOR COURSES FOR CREDIT AND DEGREE PROGRAMS

**Request For Mail Registration Must Be
Postmarked By September 2**

**Mail Packets Must Be
Postmarked By September 9.**

UNIVERSITY CAMPUS — Newton D. Baker Bldg., Euclid Ave.
at Adelbert Rd. (Parking in Severance Parking Lot, entrance
from Bellflower Rd.)

Friday, September 15, 1:30-7:00 p.m., Saturday, September
16, 9:00 a.m.-12:00 m; Monday, September 18, 9:00 a.m.-
12:00 m; 1:30-7:00 p.m.

LAKEWOOD CENTER — Lakewood High School, Bunts Rd.
and Franklin Blvd.

Monday, September 18, Wednesday, September 20, 6:00-8:00
p.m.

WINTER SESSION HOURS

BOOKSTORE: 8:00 a.m.-4:30 p.m. Daily
6:00-7:45 p.m. Tuesdays and Wednesdays
(Every evening during first two weeks of session)

REGISTRAR: 8:30 a.m.-5:00 p.m. Daily
8:30 a.m.-8:00 p.m. Mondays and Tuesdays
9:00 a.m.-12 m Saturdays

LOCATION OF CLASSES FOR CREDIT COURSES

UNIVERSITY — SOUTH CAMPUS

Adelbert Gymnasium, 2128 Adelbert Road
Adelbert Main Building, 2040 Adelbert Road
Biology Building, 2080 Adelbert Road
Chemistry Building, (next to Eldred Hall)
Dauby House, 11212 Euclid Avenue
Eldred Hall, 2070 Adelbert Road
Geology and Geography Building, 2029 Adelbert Road
Hatch Auditorium — Baker Building
Hearing and Speech Center, 11095 Euclid Avenue
Hitchcock Hall, 11105 Euclid Avenue
Home Economics Building, 2023 Adelbert Road
Karl Davis House, 2128 Adelbert Road
Newton D. Baker Memorial Bldg., Euclid Avenue and Adelbert Road
Observation School, 2064 Stearns Road
Physics Building, 2060 Adelbert Road
Science Center

UNIVERSITY — NORTH CAMPUS

Architecture House, 1715 Magnolia Drive
Architecture Studios, 1695 Magnolia Drive
Art Studios, 1615 Magnolia Drive
Clark Hall, 11130 Bellflower Road
Freiberger Library, East Blvd. and Bellflower Road
Harkness Chapel, Mather Campus
Interior Design Studios, 1725 Magnolia Drive
Mather Gymnasium
Mather Memorial Building, Bellflower Road and Ford Drive
Music House and Annex, 11039 Bellflower Road
Psychology Laboratory, 1901 Magnolia Drive

OFF CAMPUS

Arcade, 401 Euclid Avenue
Museum of Art, 11150 East Boulevard
Television Station: WEWS, 3001 Euclid Avenue
Cleveland Institute of Music, 3411 Euclid Avenue
Case Institute of Technology, 10900 Euclid Avenue
Lakewood High School, Bunts Road and Franklin Boulevard

CAMPUS PARKING FOR STUDENT CARS

Effective February 1, 1961, all parking for Western Reserve University, University Hospitals, and Case Institute of Technology is centralized for administration and control in the University Circle Development Foundation. Coupled with the assumption of responsibility for parking operation is a program of major increases in the inventory of parking space now underway by the U.C.D.F.

Basic rules of the University still apply, in that the privilege of parking on the campus is granted only to students who must drive cars to reach the campus. Permission cannot be granted to students who can use public transportation, or to those who live in dormitories, fraternity houses, or in private homes within walking distance of the campus. Overnight parking is not permitted on University property, except by permission and then only in designated places.

Students may apply for parking permits at the time of registration. The schedule of charges is as follows:

Full-time students, per semester (September 1 through January 31, or February 1 through June 30). \$11.00.

Part-time students, attending classes for nine credit hours or less (graduate) and twelve credit hours or less (undergraduate), per semester, \$5.00.

A booklet which lists parking lots available to students will be issued with each permit. Students who obtain parking permits agree to abide by the parking rules of the University and the University Circle Development Foundation. Violators are subject to fine, revocation of permit or to disciplinary action.

CTS Rapid Transit: Two stations are near the Campus. University-Cedar Stop is a short walk from the South Campus. A sidewalk short-cut runs from Fairchild Avenue near the CTS Station direct to Adelbert Road. The Euclid-East 120 Station is a short walk from the North Campus, or the Campus may be reached quickly by transfer to a No. 6 Euclid Avenue bus.

CTS Bus Lines: Express bus routes 30 and 28 and local bus route 6 run on Euclid Avenue with stops at the Campus.

IN-PLANT COUNSELING

Counselors are available for in-plant educational counseling and programming. Officials of business, industrial and community organizations wishing this service are invited to call Cleveland College, CEder 1-7700, Extension 613.

LAKWOOD CENTER

Classes on Monday and Wednesday evenings in Lakewood High School, Bunts Road and Franklin Boulevard, co-sponsored by Lakewood Board of Education, and Western Reserve University. University credits, applicable toward a degree, may be earned in all courses offered.

(See the complete listing of courses for descriptions and times of the courses listed below.)

ACCOUNTING.....	103, 203, 305
ECONOMICS.....	201
EDUCATION.....	445
ENGLISH.....	101, 251
HISTORY.....	101, 211
INDUSTRY.....	254
MARKETING AND MERCHANDISING.....	201
PHYSICAL EDUCATION.....	403
POLITICAL SCIENCE.....	101
PSYCHOLOGY.....	101, 215
REAL ESTATE.....	51
SOCIOLOGY.....	112, 203
STATISTICS.....	219

NEW STUDENTS AT THE LAKEWOOD CENTER (and all those desiring to discuss a program of study) are urged to request an appointment with an Educational Counselor. See Page 5, How to Enroll and Register, I.

FORMER STUDENTS AT THE CENTER may wish to avail themselves of the convenience of the Mail Registration process. See Page 5, How to Enroll and Register, II.

TELECOURSES

Televised University courses over WEWS, Channel 5, may be taken for college credit by fulfilling home study and reading assignments, and by passing the final examinations. Those not seeking credit may purchase the Home Study Guides. (See course listings for broadcast time and for course description.)

Sociology 112g. Principles of Sociology. (Study guide \$3.00)

French 101f. Elementary French I. (Study guide \$5.00. This is also the textbook)

GRADUATE PROGRAMS OF STUDY

It is the policy of the University to encourage college graduates to continue their education at the graduate level. For entrance into The Graduate School or into the Graduate Division of the School of Business apply to the University Admission Office, 2040 Adelbert Road, Cleveland 6, Ohio, CEdar 1-7700, Extension 721.

PROGRAMS OFFERED IN COOPERATION WITH THE SCHOOL OF BUSINESS

Certificate in Business Administration

A Certificate in Business Administration is awarded to students who have satisfied the admission requirements of degree candidates and have completed a specified 60 semester hours of work, with at least a C average.

Certified Public Accountancy Certificate

Training is offered to prepare students for the examinations required of applicants for C.P.A. certificate, although the examinations and the certificate are given only by the State Board of Accountancy.

Certificate in Real Estate

Several courses in Real Estate designed to prepare candidates for the State Examinations for licensed Real Estate brokers are offered in cooperation with the Cleveland Real Estate Board. For further details regarding these programs, consult Division of General Studies Booklet or call the Division, CEdar 1-7700, ext. 111.

DIVISION OF GENERAL STUDIES

(Courses begin September 5)

The Division of General Studies of Cleveland College serves adult residents of the community by providing opportunities for continued learning which are not part of any degree program. A separate booklet, available on request, describes the Non-Credit Courses, Study-discussion Programs, Institutes, Workshops and Public Lectures arranged by the Division. These do not lead to degrees but provide opportunities for serious pursuit of special intellectual interests. Program coordinators will be glad to help individuals or groups plan appropriate educational programs.

Courses are concerned with *Writing, Literature, English Studies for Foreign Students, Communications, Foreign Languages, Social Sciences, Psychology, Natural Sciences and Philosophy, Fine Arts, and Arts and Crafts.*

Study-discussion programs arranged are *Issues of the Sixties, World Politics, American Foreign Policy, Russian Foreign Policy, Economics and Politics, India . . . at the Crossroads, The New Age of Science—and the Citizen, Goals for Americans, Case Stories in American Politics, Democracy in America, and Africa . . . Continent in Turmoil.* In addition there are study-discussion programs known as "Living Room Learning" devoted to discussing *Literature and Language, Philosophy and Religion, The Arts, History and Democracy, Natural and Social Sciences, and Economics and Finance.*

Institutes and Workshops are planned to meet the educational problems of special groups. The following are planned for the Fall 1961 session: *Conference on School Nursing (3rd in series), Advertising Specialty National Association Management Seminar, Care of the Aged and Mentally Ill, Executive-Social Catalyst, Women in Business, Hospital Management, as well as an Alumni College for Western Reserve University graduates.*

Public Lectures scheduled are: *The Greek View of Man, Prospect for Clevelanders, The November English Lectures, The Individual in Contemporary Cultures, The McBride Lectures, Workshops on Political Responsibility, and National Security and Freedom of the Press—Can We Have Both?*

Special programs have been planned for business and industry. There will be courses in *Writing, Communications, Reading Improvement, Computer Programming, CPA Law Review, Federal Income Taxes, Foreign Trade and Traffic, Real Estate, Quality Control, and Supervisory Training.*

For detailed information on programs and courses offered by the Division of General Studies, call CEdar 1-7700, extension 111.

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ARTS AND SCIENCES

ART AND ARCHITECTURE

120. DRAWING AND PAINTING I. Drawing from life, plants and objects; developing observation of form, structure and proportion. Required of Visual Art majors. Cr. 2. \$64.

a. M. W. 1:15-4:15 p.m.	Art Studios	Sheridan
b. T. Th. 2:20-5:20 p.m.	Art Studios	Grauer
c. M. W. 6:30-9:30 p.m.	Art Studios	Grauer

150. DRAFTING AND PROJECTION DRAWING. Parallel projection and graphic description of spatial and geometric forms in orthographic and pictorial systems; applications in freehand and technical methods. Cr. 3. \$96.

T. Th. 8:00-11:00 a.m.,		Reeves
W. 1:15-5:15 p.m.	Interior Design Studios	

170. DESIGN WORKSHOP I. Development of skill and sensitivity in the use of space, structure form and texture through construction experiments with hand and power tools, utilizing various materials. Cr. 1. \$32.

a. M. 1:15-4:15 p.m.	Architecture Studios	O'Sickey
b. T. 1:15-4:15 p.m.	Architecture Studios	O'Sickey

205. INTRODUCTION TO ART HISTORY I. Preparation for an understanding of the humanistic relationships and enjoyment of painting, sculpture, and architecture; terminology and principles necessary to formation of judgments. Required of all Art majors. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Museum of Art	Pierce
b. M. W. 8:00-9:15 p.m.	Baker 121	Carter

220. DRAWING AND PAINTING I. Prereq.: Art and Architecture 120 and 121. A continuation of work at that level. Cr. 1. \$32.

F. 1:15-4:15 p.m.	Art Studios	Grauer
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240. THE THEORY OF INTERIOR DESIGN. Art principles in relation to interior design. Design problems involving color, texture, shapes and space in interiors. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Interior Design Studios	Ball
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250. MATERIALS AND CONSTRUCTION I. The natural building materials of wood, stone and brick; physical and structural properties, proper use, limitations and combinations in building construction. Prereq.: Art and Architecture 151. Cr. 3. \$96.

Th. 8:00 a.m.-11:00 a.m., 1:15-5:15 p.m.,		Schwartz
F. 1:15-5:15 p.m.	Architecture House	

252. MECHANICS. Principles of equilibrium for engineering structures using analytical and graphical methods including determination of loads, support forces, and shape characteristics of structural frameworks. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Architecture Studios	Gensert, Hach
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254. STRUCTURES I. Determination of shear, moment, and deflection diagrams by means of Elastic and Plastic Theories; concept of continuity in linearly continuous structures. Prereq.: Art and Architecture 253. Cr. 3. \$96.

M. W. F. 8:00-8:50 a.m.	Architecture Studios	Gensert, Hach
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280. VISUAL TRAINING I. Problems in the elements of design. Development of visual perception and aesthetic judgment. Required of all Visual Art majors. Cr. 1. \$32.

W. 1:15-5:15 p.m.	Architecture House	Gould
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290. ART TECHNIQUES IN ELEMENTARY SCHOOLS. Practice in drawing, painting, design and crafts for prospective teachers. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Art Studios	
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304. ANCIENT ARCHITECTURE. Primitive and pre-Columbian cultures of the Near and Far East and classical cultures of the Mediterranean area. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Museum of Art	Chapman
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306. MEDIEVAL ART. Painting, sculpture and minor arts from the 4th to the 15th century under Christianity in Byzantine and European cultures. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Museum of Art	Pierce
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314. MODERN PAINTING AND SCULPTURE. European painting and sculpture from the French Revolution to the present. Introduction to parallel and contemporary trends in the United States. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Museum of Art	Pierce
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321. ADVANCED DRAWING AND PAINTING. Representational composition based on out-of-doors subjects in any medium. Prereq.: Art and Architecture 220, 221 or consent of instructor. Cr. 2. \$64.

a. M. W. 1:15-4:15 p.m.	Art Studios	Grauer
b. T. Th. 6:30-9:30 p.m.	Art Studios	Grauer

323. ADVANCED DRAWING AND PAINTING. Water color, oil, pastel and black and white media, using figure and costume models. Prereq.: Art and Architecture 220, 221 or consent of instructor. Cr. 2. \$64.

a. M. W. 1:15-4:15 p.m.	Art Studios	Grauer
b. T. Th. 6:30-9:30 p.m.	Art Studios	Grauer

335. TEXTILE PRINTING. Design as applied to contemporary textiles through such processes as silk screen printing, block printing and dyeing. Cr. 2. \$64.
T. 6:30-9:30 p.m. Interior Design Studios Turobinski

337. WORKSHOP IN WEAVING. Analysis of basic weaves, traditional and contemporary. Study of design, color and texture. Cr. 2. \$64.
a. Th. 1:15-4:05 p.m. Interior Design Studios Turobinski
b. M. 6:30-9:30 p.m. Interior Design Studios Turobinski

338. WORKSHOP IN ADVANCED WEAVING. Continued study of design in handweaving; special problems including those posed by contemporary interior architecture and design. Cr. 2. \$64.
a. Th. 1:15-4:05 p.m. Interior Design Studios Turobinski
b. M. 6:30-9:30 p.m. Interior Design Studios Turobinski

343. PRESENTATION AND DELINEATION OF INTERIOR DESIGNS. Cr. 3. \$96.
T. 12:50-2:05 p.m., 2:30-5:30 p.m. Interior Design Studios Ball

347. PROFESSIONAL PRACTICE IN INTERIOR DESIGN. Obligations, ethics, practices and business. Field work and classroom study. Prereq.: Consent of instructor. Cr. 3. \$96.
M. W. F. 9:05-9:55 a.m. Interior Design Studios Ball

349. ADVANCED PROBLEMS IN INTERIOR DESIGN. The art and techniques of rendering interiors; studio course. Prereq.: Art 343. Cr. 3. \$96.
T. 12:50-2:05 p.m., 2:30-5:30 p.m. Interior Design Studios Ball

350. ARCHITECTURAL CONSTRUCTION I. Development of structural systems in bearing wall and skeleton types. Solution of foundation, wall, floor and roof construction. Prereq: Art and Architecture 251. Cr. 3. \$96.
M. 1:15-5:15 p.m. Architecture House Chaty
T. 8:00-11:00 a.m., 1:15-5:15 p.m.

354. STRUCTURES III. Theory and design of reinforced concrete beams, columns, slabs, stairs, and foundations. Prereq.: Art and Architecture 353. Cr. 3. \$96.
M. W. F. 10:10-11:00 a.m. Architecture Studios Gensert, Hach

356. ARCHITECTURE I. Clarification of architectural principles; structure, space, proportion. The expression value of materials. Painting and sculpture in their relationship to architecture. Prereq.: Art and Architecture 351 and 361. Cr. 3. \$96.
T. W. F. 1:15-6:15 p.m. Architecture Studios Priestley, Toguchi

360. FUNCTION OF BUILDINGS I. Human scale, family requirements, privacy, social hygiene, natural environment, structural systems and materials, density, circulation, and determinants of form in buildings and communities. Prereq.: Art and Architecture 251. Cr. 2. \$64.
Th. F. 1:15-5:15 p.m. Architecture House Gould, Reeves

362. PLANNING I. Analysis of the various city areas; their interrelationships and problems. Redevelopment of different parts of the present day city. Prereq.: Art and Architecture 361. Cr. 2. \$64.
M. Th. 1:15-5:15 p.m. Architecture Studios Gould

380. VISUAL TRAINING III. Problems in the elements of design. The development of visual perception and aesthetic judgment. Prereq.: Art and Architecture 281. Cr. 1. \$32.
W. 1:15-5:15 p.m. Architecture House Schwartz

392. ELEMENTARY ART EDUCATION. Survey of trends. Opportunity to participate in and evaluate teaching procedures in the classroom. Cr. 3. \$96.
T. 2:20-3:10 p.m., Th. 2:20-5:20 p.m. Art Studios

393. ART METHODS IN THE PUBLIC SCHOOLS. Methods of art instruction for grades 1 through 12. Cr. 3. \$96.
M. W. 1:15-4:15 p.m. Art Studios

ASTRONOMY

(Classes at Case Institute of Technology)

1C. DESCRIPTIVE ASTRONOMY. The physical universe stressing astronomical progress as a part of the evolution of human thought. Prereq.: Physics 103, 104. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. Nassau

2C. ELEMENTS OF ASTRONOMY. Principal features of the solar system and the sidereal universe. Telescopic observations and constellation study. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. McCuskey

21C. THE SOLAR SYSTEM. The celestial sphere, astronomical triangle, astronomical instruments, the earth, other planets and the sun. Application of physical laws to study of the universe. Prereq.: Mathematics 210, Physics 204. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. Pesch

103C. PRACTICAL ASTRONOMY I. Spherical astronomy, star positions from meridian circle measurements, reduction of observations; astronomical catalogs and charts. Prereq.: Astronomy 21C or 22C. Cr. 3. \$96.

As arranged

Stephenson

106C. PHYSICS OF THE SOLAR SYSTEM. Nature of our space environment and astronomical literature thereon. Prereq.: Mathematics 306; Physics 204. Cr. 3. \$96.

As arranged

Blanco

BIOLOGY

103. GENERAL BIOLOGY I. Structures and functions of living organisms. Similarities in the life processes of plants and animals. Evolution and genetics are central themes. Cr. 4. \$128.

a. M. W. 10:10-11:00 a.m. plus lab Alldridge, Burnett, Staff

Strosacker Auditorium—Case

b. M. W. 6:30-7:20 p.m. plus lab Biology 303 Alldridge, Burnett, Staff

Laboratory: 1. M. F. 1:15-4:00 p.m., or Biology 206

2. T. Th. 8:00-10:45 a.m., or Biology 206

3. T. Th. 1:15-4:00 p.m., or Biology 206

4. W. 1:15-4:00 p.m.,

F. 8:00-10:45 a.m., or Cancelled

5. M. W. 7:30-10:20 p.m., Biology 206

6. T. Th. 6:30-9:30 p.m. Biology 103

155. ELEMENTARY PHYSIOLOGY. Normal human physiology and a reasonable conception of hygiene presented in simple terms. Cr. 4. \$128.

T. Th. 8:00-8:50 a.m. plus Mather 24, 26

Foreman

Laboratory: 1. M. W. 1:15-3:05 p.m., or

2. T. Th. 1:15-3:05 p.m.

203. STRUCTURE AND DEVELOPMENT OF ANIMALS I. Comparative anatomy, histology, and embryology of selected vertebrates and invertebrates. Evolution and functional adaptations will be emphasized. Prereq.: Biology 104. Cr. 4. \$128.

M. W. 11:15 a.m.-12:05 p.m. plus lab Locke, R. P. Davis, Staff

Biology 303, 108, 110

Laboratory: 1. M. W. 1:15-4:05 p.m., or

2. T. Th. 1:15-4:05 p.m.

205. BIOLOGY OF VASCULAR PLANTS I. Growth, development, anatomy, reproduction and evolution of vascular plants. Prereq.: Biology 104. Cr. 4. \$128.

T. Th. 8:00-10:45 a.m. Biology 108

Allridge

326. GENETICS. Mendel's laws, linkage and crossing over, mapping of chromosomes, population genetics, human genetics, and the role of the gene in development. Prereq.: Biology 104 and Algebra. Cr. 4. \$128.

M. W. F. 8:00-8:50 a.m. plus lab Biology 303, 300

Steinberg

Laboratory: 1. M. 2:20-3:20 p.m., or

2. W. 2:20-3:20 p.m.

327. GENETICS. This course will meet concurrently with Biology 326 and will be the same as Biology 326 excluding the laboratory. Prereq.: Biology 104 and Algebra. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.

Biology 202

Schneiderman

331. CRYPTOGRAMIC BOTANY. Identification, reproduction, and economic uses of non-flowering plants. Prereq.: Biology 206 or 243. Cr. 3. \$96.

M. W. 9:05-9:55 a.m., F. 1:15-4:05 p.m.

Bole

Biology 206, 108

360. COMPARATIVE PHYSIOLOGY. Physical and chemical basis of physiological activities of living systems. Metabolism, cell permeability, food and digestion, growth and reproduction, excretion, secretion, movement and irritability. Prereq.: Biology 204 or 304, Chemistry 222, Physics 104. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.

Biology 202,

Schneiderman

373. BOTANICAL PROBLEMS I. Special work arranged according to the qualifications of the student. Cr. 3. \$96.

As arranged

Staff

375. ZOOLOGICAL PROBLEMS I. Special work arranged according to the qualifications of the student. Cr. 3. \$96.

As arranged

Staff

CHEMISTRY

(Classes in the Chemistry Building)

103. PRINCIPLES OF CHEMISTRY I. For those who plan to take more than one year of chemistry. No previous knowledge of chemistry is required. Cr. 4. \$128.

a. M. W. F. 9:05-9:55 a.m. plus lab.

Petrucchi, Staff

b. M. W. F. 10:10-11:00 a.m. plus lab.

Petrucchi, Staff

Laboratory: 1. M. 1:15-4:05 p.m., or

2. T. 1:15-4:05 p.m.

c. T. 6:30-10:20 p.m., Th. 7:30-9:20 p.m.

Moews

105. ADVANCED PRINCIPLES OF CHEMISTRY I. Designed for the well-prepared beginning student. Admission by Department through the offices of the Deans. Prereq.: one year of high school chemistry. Cr. 4. \$128.

M. W. F. 8:00-8:50 a.m., T. 8:00-10:45 a.m.

Chamberlain

221. **ORGANIC CHEMISTRY I.** Prereq.: Chemistry 104 or 106. Cr. 3. \$96.
 a. M. W. 11:15 a.m.-12:05 p.m. plus lab. Lankelma
 b. T. Th. 9:30-10:20 a.m. plus lab. Dannelley
 Laboratory: 1. T. 1:15-4:05 p.m., or
 2. Th. 1:15-4:05 p.m.
 c. **M. 6:30-8:20 p.m., W. 6:30-9:20 p.m.** Nordlander

321. **CHEMISTRY OF NATURAL PRODUCTS I.** Stereochemistry, carbohydrates, proteins, lipids, essential oils and terpenes. Prereq.: Chemistry 222. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. Crum

327. **INTERMEDIATE ORGANIC CHEMISTRY.** Reactions of organic chemistry. Laboratory applications to problems in synthesis and semimicro qualitative analysis. Prereq.: Chemistry 222. Cr. 4. \$128.
M. 1:15-3:05 p.m., W. F. 1:15-4:05 p.m. Dannelley

334. **QUANTITATIVE ANALYSIS I: GRAVIMETRIC AND VOLUMETRIC METHODS.** Prereq.: Chemistry 104 or 106. Cr. 4. \$128.
 a. **F. 1:15-3:05 p.m. plus** Damerell
 Laboratory: 1. **M. W. 1:15-4:05 p.m., or**
 2. **T. Th. 1:15-4:05 p.m.**
 b. **T. Th. 6:30-10:20 p.m.** Damerell

340. **ELEMENTARY PHYSICAL CHEMISTRY.** Theory of solutions and electrochemistry. Prereq.: Two years of college chemistry. Cr. 4. \$128.
M. W. F. 9:05-9:55 a.m., W. 1:15-4:05 p.m. Hovorka

343. **PHYSICAL CHEMISTRY I.** Prereq.: Chemistry 334 and Mathematics 200 or 210. Cr. 4. \$128.
 a. **M. W. F. 10:10-11:00 a.m. plus**
 Laboratory: 1. **T. 1:15-4:05 p.m., or**
 2. **Th. 1:15-4:05 p.m.**
 b. **M. Th. 7:30-8:45 p.m., W. 7:30-10:20 p.m.** Yeager

CLASSICS

(See also Greek and Latin)

341. **GREEK LITERATURE IN TRANSLATION.** Extensive and intensive reading in the literature of Greece. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Mather 241 Bliss

COMPARATIVE LITERATURE

311. **MEDIEVAL NARRATIVE.** Readings, in translation, of medieval epics, romances, sagas, and tales, emphasizing the transition from myth to literature and the development of subject matter and form. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Clark 212 Reiss

342. **20TH CENTURY EUROPEAN DRAMA.** Tragic and comic spirit. Tradition and experimentation as seen in the works of playwrights from Ibsen to Jean-Paul Sartre. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m. Clark 212 Cook

343. **MODERN EUROPEAN POETRY.** Comparative study of themes and language in the poetry of Baudelaire, Lorca, Stefan George, Rilke, Blok, T. S. Eliot, and others. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Clark 212 Cook

DRAMATIC ARTS

201. **ORAL INTERPRETATION OF DRAMATIC LITERATURE.** The speaking of dialogue. Chiefly modern prose plays with emphasis on poetic drama of the past and present. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Eldred Miles

223. **APPRECIATION OF THE THEATRE.** Theatre as an art form. Styles of production in leading theatres of America and Europe. Study of works of outstanding playwrights, directors, actors and designers. Cr. 3. \$96.

a. **M. W. F. 11:15 a.m.-12:05 p.m.** Eldred Leathem
 b. **T. Th. 12:50-2:05 p.m.** Eldred Leathem
 c. **T. Th. 6:30-7:45 p.m.** Eldred Watson

231. **ACTING TECHNIQUE I.** Rehearsal and performance of scenes and class exercises to develop creative imagination as a basis for acting. Prereq.: Dramatic Arts 201 or consent of instructor. Cr. 3. \$96.

W. 1:15-3:45 p.m. Eldred Miles

241. **ELEMENTS OF TELEVISION.** Cr. 2. \$64.
W. 6:00-7:45 p.m. Station WEWS Leathem

323. **STAGECRAFT I.** Technical problems of play production. Assignments in workshop and backstage during performances. Cr. 3. \$96.

T. Th. 1:15-4:15 p.m. and other hours as arranged Kurth
 Eldred

387. **MOTION PICTURE PRODUCTION I.** Technical understanding and application in 16 mm. field. Camera construction, optics, lighting, emulsions, exposing, sets and direction. Cr. 3. \$96.

W. 6:30-9:30 p.m. Observation School Borza

EDUCATION

101. INTRODUCTION TO TEACHING IN THE ELEMENTARY SCHOOL. History, organization, curricula, objectives of elementary schools in the United States. Observation in public schools. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Mather 222 Emlaw

202. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. Methods of teaching reading, spelling, handwriting, and oral and written expression. Observation in public schools. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Mather 24 Shubkagle

304. EDUCATIONAL PSYCHOLOGY. Background for understanding the psychological principles underlying modern theories of education. Basis for evaluating school practice at its best. Cr. 3. \$96.

a. T. Th. 8:00-9:15 a.m. Mather 123 Witcraft

b. T. Th. 9:30-10:45 a.m. Mather 122 Fleming

c. T. Th. 12:50-2:05 p.m. Mather 122

d. M. W. 8:00-9:15 p.m. Mather 123 Witcraft

305. CHILDREN'S LITERATURE. Methods and materials of literature in nursery, kindergarten, primary and intermediate grades. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m. Freiberger 312

306. CLASSROOM MANAGEMENT AND STUDENT TEACHING IN THE ELEMENTARY SCHOOL. Teaching under supervision of a training teacher and a supervisor from the University. Preparation of teaching materials; daily conferences. Prereq.: 12 semester hours in Education at WRU, and enrollment at the University for a regular semester. Cr. 6. \$192.

Daily, forenoons, as arranged Davies, Emlaw, Forest, Shubkagle

307. STUDENT TEACHING IN THE ELEMENTARY SCHOOL. A second period of teaching at a different level, involving more responsibility and participation in teaching. Cr. 6. \$192.

Daily, forenoons, as arranged Davies, Emlaw, Forest, Shubkagle

308. STUDENT TEACHING IN THE SECONDARY SCHOOL. Open only to students whose applications have been approved in advance. Required of all students who qualify for Ohio provisional high school certificates. Prereq.: 9 semester hours in Education at WRU. Cr. 6. \$192.

Daily, forenoons, as arranged Barth, Nixon, Sheridan

312. SECONDARY SCHOOL ADMINISTRATION AND MANAGEMENT. Problems as they concern the teacher. Planned to accompany Education 308. Prereq.: Education 314 or consent of instructor. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m. Mather 24 Barth

314. PRINCIPLES OF TEACHING IN THE SECONDARY SCHOOL. Teaching as guidance to learning activities. Principles and techniques discussed, analyzed and observed in classroom visits. Cr. 3. \$96.

a. T. Th. 8:00-9:15 a.m. Mather 136 Barth

b. T. Th. 9:30-10:45 a.m. Mather 126

340. EARLY CHILDHOOD EDUCATION I. Organization of activity curriculum. Use of art and industrial arts in social studies and natural units, and suitable outdoor activities. Cr. 3. \$96.

M. W. 4:30-5:45 p.m. Mather 24 Forest

345. TEACHING OF READING. Modern methods and materials for the teaching of reading in the elementary school. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Mather 24 Shubkagle

350. SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. Units for age levels providing for progress in tool subjects and evaluating progress and values. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Mather 222 Davies

445. READING IN THE ELEMENTARY SCHOOL. Cr. 3. \$96.

b. W. 7:30-9:30 p.m. Lakewood Sackett

ENGLISH

001. FUNDAMENTALS OF ENGLISH. Review of grammar, sentence structure, and punctuation; training and practice in writing compositions. Individual conferences. Cr. 0. \$96.

M. W. 8:00-9:15 p.m. Mather 144 McDougall

005. SPOKEN ENGLISH FOR FOREIGN STUDENTS. Cr. 0. \$96.

T. Th. 6:30-9:15 p.m. Clark 204 Clarke

006. ENGLISH CONVERSATION AND COMPOSITION FOR FOREIGN STUDENTS. Cr. 0. \$96.

M. W. 6:30-7:45 p.m. Clark 204 Greenlee

007. ENGLISH GRAMMAR AND COMPOSITION FOR FOREIGN STUDENTS. Cr. 0. \$96.

T. Th. 6:30-7:45 p.m. Clark 212 Reid

101. ENGLISH COMPOSITION I. Expository writing with a review of English prose. Cr. 3. \$96.

a.	M. W. F. 8:00-8:50 a.m.	Clark 206	Zender
b.	M. W. F. 8:00-8:50 a.m.	Clark 203	Safer
c.	M. W. F. 8:00-8:50 a.m.	Clark 106	Broh
d.	M. W. F. 9:05-9:55 a.m.	Mather 126	Reiss
e.	M. W. F. 9:05-9:55 a.m.	Baker 222	Calhoun
f.	M. W. F. 9:05-9:55 a.m.	Mather 136	Broh
g.	M. W. F. 9:05-9:55 a.m.	Clark 301	Zender
h.	M. W. F. 10:10-11:00 a.m.	Clark 106	Waterman
j.	M. W. F. 10:10-11:00 a.m.	Clark 203	Reiss
k.	M. W. F. 10:10-11:00 a.m.	Baker 14	Safer
m.	M. W. F. 11:15 a.m.-12:05 p.m.	Mather 122	Calhoun
n.	M. W. F. 11:15 a.m.-12:05 p.m.	Clark 301	Lovejoy
p.	M. W. F. 11:15 a.m.-12:05 p.m.	Mather 24	Berke
r.	M. W. F. 11:15 a.m.-12:05 p.m.	Clark 209	Murrah
(Admission by permission of Deans)			
s.	M. W. F. 1:15-2:05 p.m.	Baker 212	Lovejoy
t.	M. W. F. 1:15-2:05 p.m.	Baker 219	Murrah
u.	M. W. F. 1:15-2:05 p.m.	Clark 106	Roulet
(Nursing students only.)			
v.	M. W. F. 2:20-3:10 p.m.	Clark 109	Marsh
w.	M. W. F. 2:20-3:10 p.m.	Clark 106	Roulet
(Nursing students only.)			
x.	M. W. F. 2:20-3:10 p.m.	Clark 206	Berke
(Nursing students only.)			
y.	T. Th. 8:00-9:15 a.m.	Baker 4	Hammond
z.	T. Th. 8:00-9:15 a.m.	Clark 203	Lelyveld
aa.	T. Th. 9:30-10:45 a.m.	Baker 4	Hammond
bb.	T. Th. 9:30-10:45 a.m.	Clark 206	Lelyveld
cc.	T. Th. 9:30-10:45 a.m.	Baker 10	McFarland
dd.	T. Th. 9:30-10:45 a.m.	Baker 12	Rehor
(Admission by permission of Deans)			
ee.	T. Th. 12:50-2:05 p.m.	Baker 210	Levin
ff.	T. Th. 12:50-2:05 p.m.	Baker 8	Farnham
gg.	T. Th. 12:50-2:05 p.m.	Baker 220	Drummond
hh.	T. Th. 12:50-2:05 p.m.	Clark 301	Kummer
(Admission by permission of Deans)			
jj.	T. Th. 12:50-2:05 p.m.	Clark 203	Adrian
(Nursing students only.)			
kk.	M. W. 6:30-7:45 p.m.	Mather 144	McDougall
mm.	M. W. 8:00-9:15 p.m.	Clark 106	Drummond
nn.	T. Th. 6:30-7:45 p.m.	Clark 106	McDougall

pp.	T. Th. 8:00-9:15 p.m.	Clark 206	Reid
(Primarily for students with foreign background. Others may enroll.)			
	M. W. 6:30-7:45 p.m.	Lakewood	Duff
	M. W. 8:45-10:00 a.m.	Institute of Music	Farnham
	T. Th. 8:00-9:15 a.m.	Clark 106	Moss
	T. Th. 12:50-2:05 p.m.	Baker 4	Moss

102. ENGLISH COMPOSITION II. Expository writing, including a research paper. Limited reading of current literature. Prereq.: English 101. Cr. 3. \$96.

a.	M. W. F. 9:05-9:55 a.m.	Clark 106	Clarke
b.	M. W. F. 11:15 a.m.-12:05 p.m.	Clark 106	Clarke
c.	T. Th. 9:30-10:45 a.m.	Baker 202	Friend
d.	M. W. 6:30-7:45 p.m.	Clark 106	Clarke
e.	T. Th. 8:00-9:15 p.m.	Clark 109	Hamilton

200. WRITING THE NEWS I. See Journalism 200.

203. ADVANCED COMPOSITION. Practice in planning and writing expository essays such as feature articles, profiles, and reviews; individual conferences. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Clark 203	Waterman
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251. FORMS OF NARRATIVE. Including epic, tale, narrative satire and novel. Cr. 3. \$96.

a.	M. W. F. 9:05-9:55 a.m.	Mather 144	Drummond
b.	M. W. F. 10:10-11:00 a.m.	Clark 209	Murrah
c.	M. W. F. 11:15 a.m.-12:05 p.m.	Clark 203	Reid
d.	M. W. F. 1:15-2:05 p.m.	Clark 209	Friend
e.	T. Th. 9:30-10:45 a.m.	Clark 209	Kummer
f.	T. Th. 12:50-2:05 p.m.	Clark 209	Hamilton
g.	T. Th. 8:00-9:15 p.m.	Clark 106	McDougall
h.	M. W. 8:00-9:15 p.m.	Lakewood	Duff

252. DRAMA AND POETRY. Selected to represent the chief classes of each. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Clark 206	Lelyveld
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253. REPRESENTATIVE ENGLISH AUTHORS TO 1800. Major writers from Beowulf through the 18th century. Cr. 3. \$96.

a.	M. W. F. 9:05-9:55 a.m.	Clark 203	Waterman
b.	M. W. F. 10:10-11:00 a.m.	Clark 109	Marsh
c.	T. Th. 12:50-2:05 p.m.	Clark 109	McFarland

254. REPRESENTATIVE ENGLISH AUTHORS SINCE 1800. Major writers from Wordsworth to the present. Cr. 3. \$96.

M. W. F. 2:20-3:10 p.m. Clark 203 Hammond

302. CREATIVE WRITING. Practice in writing fiction and other imaginative prose on an advanced level. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Baker 212 Hammond

322. LITERATURE OF THE ENGLISH RENAISSANCE. The beginnings of modern literature in the age of Elizabeth; works of major writers; the ideas and attitudes of the age. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Mather 144 Drummond

325. ENGLISH LITERATURE OF THE EARLY 19TH CENTURY. Special attention to the poets. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m. Clark 109 Marsh

326. ENGLISH LITERATURE OF THE VICTORIAN AGE. Prose and poetry of the period portraying Victorian life in its social and intellectual aspects. Cr. 3. \$96.

T. Th. 8:00-9:15 p.m. Clark 203 Adrian

327. AMERICAN LITERATURE TO 1865. From the colonial period to the Civil War, with emphasis on major writers of romanticism and the New England group. Cr. 3. \$96.

a. M. W. F. 1:15-2:05 p.m. Mather 144 Hastings
b. T. Th. 6:30-7:45 p.m. Clark 209 Kummer

333. SHAKESPEARE I. Comedies and chronicle history plays. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m. Clark 209 McCollom
b. M. W. F. 2:20-3:10 p.m. Clark 209 McFarland

342. 19TH CENTURY ENGLISH NOVEL. A survey of the novel from Scott to Hardy. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Baker 8 Griffin

355. GREAT BOOKS TO 1650. Chief figures of Western literature from Homer through Shakespeare. Cr. 3. \$96.

a. T. Th. 9:30-10:45 a.m. Clark 106 Jones
b. M. W. 6:30-7:45 p.m. Clark 109 Rehor

378. THE TEACHING OF ENGLISH. Special attention to material suitable for courses in junior and senior high schools. Prereq.: English 311 or equivalent. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m. Clark 109 Randall

381. INDIVIDUAL AUTHORS: CHAUCER. Intensive study in the life and work of Chaucer. Cr. 3. \$96.

M. W. F. 1:15-2:05 p.m. Clark 203 Waterman

383. HONORS SEMINAR. Intensive studies in literature required of all candidates for honors in English. Prereq.: permission of the department. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Clark 211 Friend

FRENCH

101. ELEMENTARY FRENCH I. Fundamentals of French grammar to read, write, speak, and understand simple French. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m. Mather 126 Borchette
b. M. W. F. 9:05-9:55 a.m. Mather 238 Delvigs
c. M. W. F. 1:15-2:05 p.m. Mather 126 Osborn
d. M. W. F. 2:20-3:10 p.m. Mather 238 Hermann
e. M. W. 8:00-9:15 p.m. Mather 226 Kline
f. T. Th. S. 9:00-9:30 a.m. WEWS Kupersmith
Beginning September 19 (by Television and Home Study) station WEWS, Channel 5.

102. ELEMENTARY FRENCH II. Prereq.: French 101, or one year of high school French. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m. Mather 238 Guggen
b. M. W. F. 1:15-2:05 p.m. Mather 225 Burrell

201. INTERMEDIATE FRENCH I. Review and further study of grammar and idiomatic expressions; composition and conversation based upon representative types of French literature. Prereq.: French 102 or 2 years of high school French. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m. Mather 238 Delvigs
b. M. W. F. 10:10-11:00 a.m. Mather 238 Furber
c. M. W. F. 11:15 a.m.-12:05 p.m. Mather 25 Hermann
d. T. Th. 9:30-10:45 a.m. Baker 214 Buford
e. T. Th. 12:50-2:05 p.m. Mather 131 Borchette
f. M. W. 6:30-7:45 p.m. Mather 226 Guggen

202. INTERMEDIATE FRENCH II. Review and further study of grammar and idiomatic expressions; composition and conversation based upon representative types of French literature. Prereq.: French 201 or three years of high school French. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m. Mather 226 Burrell
b. M. W. F. 2:20-3:10 p.m. Mather 126 Kline

211. INTRODUCTION TO FRENCH LITERATURE I. Reading of selected works of French literature. Further study with emphasis on speaking. Prereq.: French 202 or three years of high school French. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Mather 231	Osborn
b. M. W. F. 1:15-2:05 p.m.	Mather 243	Kupersmith
c. T. Th. 9:30-10:45 a.m.	Mather 238	Mulhauser
d. T. Th. 12:50-2:05 p.m.	Mather 125	Crocker

301. ADVANCED ORAL PRACTICE. Development of fluency in speaking French. Correct sentence construction and use of idiomatic vocabulary. Prereq.: French 202 or equivalent. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Mather 243	Kupersmith
b. T. Th. 12:50-2:05 p.m.	Baker 214	Buford

331. FRENCH LITERATURE OF THE 17TH CENTURY I: THE MASTERS OF FRENCH CLASSICISM. Origins and foundations of classicism; its philosophic and artistic implications; analysis of texts and literary theories. Descartes, Pascal, Corneille. Prereq.: French 211, 212 or permission of chairman. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Clark 211	Lusseyran
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351. THE 19TH CENTURY NOVEL. Stendhal, Balzac, Flaubert, Zola, Maupassant and others. Prereq.: French 211, 212 or permission of chairman. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Mather 238	Mulhauser
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361. THE DRAMA AND NOVEL OF THE 20TH CENTURY I. The novel from Proust to the nouveau roman. Prereq.: French 211, 212 or permission of chairman. Cr. 3. \$96.

M. W. F. 1:15-2:05 p.m.	Mather 241	Furber
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GEOGRAPHY

(All classes in Geology-Geography Bldg. unless otherwise stated.)

101. FUNDAMENTALS OF GEOGRAPHY. Survey of the natural environment. Interrelations of human life and elements of natural environment. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Baker 121	Carlson
b. T. Th. 6:30-7:45 p.m.	Room 22	Walmsley

204. CARTOGRAPHY AND GRAPHICS. Study and construction of map projections; graphs for plotting geographic data. Prereq.: Geography 101 or consent of instructor. Cr. 3. \$96.

M. F. 1:15-2:05 p.m.,	Room 2	Walmsley
W. 1:15-4:15 p.m.		

302. CONSERVATION OF NATURAL RESOURCES. The United States. Analysis of exploitation and waste. Methods of conservation. Prereq.: Geography 101 or consent of instructor. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Room 1	Walmsley
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305. GEOGRAPHY OF EUROPE. Raw materials, natural resources; land in relation to nations. World position; interpretations of current happenings. Prereq.: Geography 101 or consent of instructor. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Room 1	Carlson
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310. GEOGRAPHY OF THE U.S.S.R. Analysis of resources, industrial development, political geography, peoples of the U.S.S.R. Prereq.: Geography 101 or consent of instructor. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Room 1	Carlson
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313. RAW MATERIALS AND INTERNATIONAL AFFAIRS. Geographic analysis. Efforts of control by international commodity agreements. Prereq.: Geography 312 or consent of instructor. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m.	Room 1	Walmsley
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GEOLOGY

(All classes in Geology-Geography Bldg.)

102. PHYSICAL GEOLOGY LABORATORY. Cr. 1. \$32.

W. 1:15-3:15 p.m.	Room 22	Hall
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103. PHYSICAL GEOLOGY. Composition and structure of the earth's crust, development of land forms, volcanism, and earthquakes. Designed for non-science majors. Cr. 3. \$96.

a. M. W. 10:10-11:00 a.m. plus lab.	Rooms 22, 3	Hall
b. M. W. 6:30-7:20 p.m. plus lab.	Rooms 22, 3	Cain
Laboratory:		Bacon
1. M. 1:15-4:15 p.m., or		Bacon
2. T. 1:15-4:15 p.m., or		Stehli
3. T. 1:15-4:15 p.m., or		Bacon
4. Th. 1:15-4:15 p.m., or		Cain
5. M. 7:30-10:30 p.m.		

109. PRINCIPLES OF PHYSICAL GEOLOGY. Same as Geology 110 without laboratory. Primarily for Case students. Prereq.: Three units of high school mathematics and at least two units of high school science. Cr. 2. \$64.

M. W. 11:15 a.m.-12:05 p.m.	Room 22	Stehli
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110. PRINCIPLES OF PHYSICAL GEOLOGY. Introductory course for science majors. Study, in terms of processes and rates, of modification of the earth's crust, its composition and structure. Prereq.: Three units of high school mathematics and at least two units of high school science. Cr. 3. \$96.

M. W. 11:15 a.m.-12:05 p.m.,

Th. 1:15-4:15 p.m.

Room 22

Stehli

212. GEOMORPHOLOGY. Processes shaping land surface and the forms produced, along with physiographic study of selected areas in the U.S. Prereq.: Geology 103 or 110. Cr. 3. \$96.

T. Th. 9:30-10:20 a.m.,

Th. 1:15-4:15 p.m.

Rooms 22, 2

Hall

330. OPTICAL MINERALOGY. Determination of non-opaque solids and compositions of solid solutions by optical properties, such as refractive indices, optical interference, and optical orientation, using the polarizing microscope. Prereq.: Geology 110, 120 and Chemistry 104. Cr. 3. \$96.

M. W. 11:15 a.m.-12:05 p.m.,

W. 1:15-4:15 p.m.

Room 3

Bacon

GERMAN

101. ELEMENTARY GERMAN I. Fundamentals of German grammar, supplemented by reading of easy modern texts. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m. Mather 144

Polt

b. M. W. F. 8:00-8:50 a.m. Clark 109

Loeschen

c. M. W. F. 9:05-9:55 a.m. Clark 109

Loeschen

d. T. Th. 8:00-9:15 a.m. Clark 206

Loeschen

e. T. Th. 9:30-10:45 a.m. Clark 109

Bartelmez

f. T. Th. 12:50-2:05 p.m. Mather 225

Brundrett

g. T. Th. 6:30-7:45 p.m. Clark 109

Braasch

h. T. Th. 6:30-7:45 p.m. Clark 206

Bartelmez

102. ELEMENTARY GERMAN II. Prereq.: German 101 or one year of high school German. Cr. 3. \$96.

T. Th. 8:00-9:15 a.m.

Mather 144

Polt

201. INTERMEDIATE LITERARY GERMAN I. Reading of representative literary works with oral drill and composition. Prereq.: German 102 or 2 years of high school German. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m. Clark 206

Braasch

b. M. W. F. 11:15 a.m.-12:05 p.m. Cancelled

c. M. W. F. 11:15 a.m.-12:05 p.m. Mather 225

Brundrett

d. M. W. F. 1:15-2:05 p.m. Clark 109

Braasch

e. T. Th. 9:30-10:45 a.m. Clark 301

Brundrett

f. T. Th. 8:00-9:15 p.m. Clark 109

Loeschen

g. M. W. F. 9:05-9:55 a.m. Clark 206

Bartelmez

202. INTERMEDIATE LITERARY GERMAN II. Reading of representative literary works with oral drill and composition. Prereq.: 3 years of high school German, or German 201. Cr. 3. \$96.

T. Th. 8:00-9:15 a.m.

Clark 109

Bartelmez

205. CONVERSATION AND COMPOSITION I. Development of accuracy in speaking and writing on topics of general interest. Prereq.: at least 6 hours of college German or equivalent. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.

Mather 243

Polt

355. THE ROMANTIC MOVEMENT I. Chief literary tendencies of German romanticism. Prereq.: German 202 or four years of high school German or consent of instructor. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.

Clark 106

Braasch

365. CONTEMPORARY LITERATURE I. The new spirit of German literature as reflected in the short story, novel and drama of representative authors. Prereq.: German 202 or four years of high school German or permission of instructor. Cr. 3. \$96.

M. W. 8:00-9:15 p.m.

Clark 212

Brundrett

GREEK

101. ELEMENTARY GREEK I. Grammar and reading of elementary prose. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.

Mather 241

Bliss

201. SECOND YEAR GREEK I. Attic Greek. Prereq.: Greek 102 or equivalent. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.

Mather 241

Bliss

309. LYSIAS. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.

Mather 241

HISTORY

101. WESTERN CIVILIZATION I. Introduction to the study of the modern world beginning with a survey of ancient civilization. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m.

Baker 203

Cowdrey

b. M. W. F. 9:05-9:55 a.m.

Baker 203

Stewart

c. M. W. F. 10:10-11:00 a.m.

Baker 203

Cowdrey

d. M. W. F. 11:15 a.m.-12:05 p.m.

Mather 223

Siney

e. M. W. F. 1:15-2:05 p.m.

Mather 231

Siney

f. T. Th. 9:30-10:45 a.m.

Baker 203

Stewart

g. T. Th. 12:50-2:05 p.m.

Baker 205

Becker

h. T. Th. 6:30-7:45 p.m.

Mather 223

Becker

j. M. W. 6:30-7:45 p.m.

Lakewood

Cruden

211. HISTORY OF THE UNITED STATES I. Survey of American civilization from the era of discovery to 1865. Cr. 3. \$96.

a. T. Th. 8:00-9:15 a.m.	Baker 205	Thomson
b. T. Th. 9:30-10:45 a.m.	Baker 205	Thomson
c. T. Th. 12:50-2:05 p.m.	Baker 203	Thornton
d. M. W. 6:30-7:45 p.m.	Baker 203	Thornton
e. M. W. 8:00-9:15 p.m.	Lakewood	Campbell

241. HISTORY OF ENGLAND I. General survey from the Anglo-Saxon conquest to the present. Special readings in constitutional history for pre-law students. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Baker 204	Barnes
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305. THE RENAISSANCE. Political, economic and cultural developments between 1300 and 1600 in Italy, Germany, the Low Countries and England. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Mather 226	Becker
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309. EUROPE SINCE 1914 I. First World War; its settlement, political and economic problems, 1919-1939; second World War and its aftermath. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Mather 231	Siney
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317. THE FRENCH REVOLUTION, 1789-1799. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Baker 204	Stewart
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348. 20TH CENTURY ENGLAND. Problems that have confronted England since 1895 and of their influence on her internal, imperial, and foreign policies and on her culture. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Baker 204	Barnes
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362. GROWTH OF AMERICAN SOCIETY, 1689-1763. Maturing of American institutions and culture within the framework of the Old British Empire. Cr. 3. \$96.

M. W. 6:30-7:45 p.m.	Baker 204	Thomson
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373. LINCOLN TO THEODORE ROOSEVELT. An intensive study by the topical method of the emergence of modern America. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Baker 221	Wittke
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376. DIPLOMATIC HISTORY OF THE UNITED STATES II. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Baker 205	Cramer
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395. HISTORY OF SCIENCE I. Philosophical, religious, social and intellectual factors determining the acquisition of scientific knowledge to 1600. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Baker 206	Miller
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HOME ECONOMICS

(Classes in Home Economics Bldg. unless otherwise stated.)

201. NUTRITION. Physiological and nutritive needs in successive stages of life. Relationship to other sciences and cultural, psychological, economic and international implications. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m.	Fischer
b. T. Th. 12:50-2:05 p.m.	Vandervort

240. THE THEORY OF INTERIOR DESIGN. Art principles in relation to interior design. Design problems involving color, texture, shapes and space in interiors. Cr. 3. \$96.

T.Th. 9:30-10:45 a.m.	Interior Design Studios	Ball
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303. NORMAL NUTRITION I. Chemical composition, metabolism, and physiological functions of foodstuffs. Energy, protein and mineral nutrition. Prereq.: Chemistry 221 and Biology 155. Cr. 3. \$96.

T. Th. 1:15-4:05 p.m.	Hunscher
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306. COMPARATIVE FOOD PREPARATION AND DEMONSTRATION METHODS. Effects of such variables as materials, temperature, and equipment. Recent food research. Student demonstrations. Prereq.: Home Economics 206. Cr. 3. \$96.

M. W. 1:15-4:05 p.m.	Harvey
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307. THE SCIENCE AND ART OF COOKERY. Scientific and cultural phases. The creative value of cookery. Establishment of good standards for food products. Cr. 3. \$96.

M. 11:15 a.m.-12:05 p.m., W. F. 9:05 a.m.-12:05 p.m.	Harvey
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309. CHILD DEVELOPMENT AND HEALTH. From prenatal to adult life. Physical development in the family environment. Cr. 3. \$96.

a. M. W. 2:20-3:35 p.m.	Hunscher
b. T. Th. 9:30-10:45 a.m.	Hunscher

312. FOOD SERVICE MANAGEMENT I. Large quantity food preparation. Required observation at Mt. Sinai Hospital and other community food services. Prereq.: Home Economics 206 or 210. Cr. 3. \$96.

M. 1:15-2:05 p.m. plus two morning laboratory sessions as arranged.	Vandervort
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315. APPAREL SELECTION AND CONSTRUCTION. Design principles and practice in relation to costume. Cr. 2. \$64.

S. 9:00 a.m.-12:00 m.	Turobinski
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316. **COSTUME DESIGN.** Flat-pattern method of apparel design. Survey of earlier cultural influences on contemporary costume. Prereq.: Home Economics 215 or equivalent. Cr. 2. \$64.

F. 1:15-4:05 p.m. Turobinski

317. **TAILORING.** Appraisal of tailored garments; application of principles to a coat or suit. Prereq.: Home Economics 215 or equivalent. Cr. 2. \$64.

M. 1:15-4:05 p.m. Turobinski

335. **TEXTILE PRINTING.** Design as applied to contemporary textiles through such processes as silk screen printing, block printing and dyeing. Cr. 2. \$64.

T. 6:30-9:30 p.m. Interior Design Studios Turobinski

337. **WORKSHOP IN WEAVING.** Analysis of basic weaves, traditional and contemporary. Study of design, color and texture. Cr. 2. \$64.

a. Th. 1:15-4:05 p.m. Interior Design Studios Turobinski

b. M. 6:30-9:30 p.m. Interior Design Studios Turobinski

338. **WORKSHOP IN ADVANCED WEAVING.** Continued study of design in handweaving. Attention to special problems including those posed by contemporary interior architecture and design. Cr. 2. \$64.

a. Th. 1:15-4:05 p.m. Interior Design Studios Turobinski

b. M. 6:30-9:30 p.m. Interior Design Studios Turobinski

343. **PRESENTATION AND DELINEATION OF INTERIOR DESIGNS.** Cr. 3. \$96.

T. 12:50-2:05 p.m., 2:30-5:30 p.m. Interior Design Studios Ball

347. **PROFESSIONAL PRACTICE IN INTERIOR DESIGN.** Its obligations, ethics, practices and business. Field work and classroom study. Prereq.: Consent of instructor. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Interior Design Studios Ball

349. **ADVANCED PROBLEMS IN INTERIOR DESIGN.** Art and techniques of rendering interiors; studio course. Prereq.: Consent of instructor. Cr. 3. \$96.

T. 12:50-2:05 p.m., 2:30-5:30 p.m. Interior Design Studios Ball

HUMANITIES

302. **THE ARTS AND THEIR INTERRELATIONS.** Visual arts, literature, music, and theater, their relations to each other and to the cultural environment, and the psychology of artistic creation and appreciation. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Museum of Art, Classroom C Evans

ITALIAN

101. **ELEMENTARY ITALIAN I.** Fundamentals of Italian grammar. Development of the ability to read, write, speak and understand simple Italian. Cr. 3. \$96.

a. M. W. F. 2:20-3:10 p.m. Baker 210 Barricelli

b. M. W. 6:30-7:45 p.m. Institute of Music Barricelli

201. **INTERMEDIATE ITALIAN I.** Review and further study of grammar and idiomatic expressions, composition and conversation based upon representative types of Italian literature. Prereq.: Italian 102 or equivalent. Cr. 3. \$96.

a. M. W. F. 1:15-2:05 p.m. Baker 210 Barricelli

b. T. Th. 6:30-7:45 p.m. Mather 243 Barricelli

311. **DANTE I.** Prereq.: Italian 201, 202 or equivalent. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Baker 219 Barricelli

JOURNALISM

200. **WRITING THE NEWS I.** News gathering; finding and recognizing the news. Copy editing. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Clark 212 Rehor

301. **HOUSE MAGAZINES. TRADE AND SOCIETY PUBLICATIONS.** Editing and publishing for morale and sales — for better dealer, jobber, customer, and personnel relations. Reporting and writing. Cr. 3. \$96.

T. Th. 8:00-9:15 p.m. Baker 16 Chandler

304. **PUBLICITY METHODS.** Instruction in judging materials, saving reporters' and photographers' time, preparation of releases and scripts, staging of newsworthy events. Problems of organization, scheduling and office procedures. Cr. 3. \$96.

M. W. 6:30-7:45 p.m. Baker 212 Bell

LATIN

101. **ELEMENTARY LATIN I.** Essentials of grammar and reading of elementary prose. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Mather 243

201. **SECOND YEAR LATIN I.** Cicero, *Orations*. Prereq.: Latin 101, 102 or equivalent. Cr. 3. \$96.

M. W. F. 9:00-9:55 a.m. Mather 241 Walker

305. **LITERARY TYPES I.** Selections from Cicero, Catullus, Livy and Horace.
Prereq.: Latin 201, 202 or at least three years of high school Latin. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Mather 243 Bliss

309. **ROMAN SATIRE.** The satire of Horace and Juvenal. Cr. 3. \$96.
As arranged. Bliss

MATHEMATICS

102. **INTRODUCTION TO MATHEMATICS.** Topics to be arranged. Cr. 3. \$96.

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| a. M. W. F. 8:00-8:50 a.m. | Mather 131 |
| b. M. W. F. 10:10-11:00 a.m. | Baker 216 |
| c. T. Th. 9:30-10:45 a.m. | Mather 125 |

103. **ALGEBRA AND TRIGONOMETRY.** Review of factoring and quadratic equations. Binomial theorem, determinants and topics from the theory of equations. Analytic trigonometry and complex numbers. Prereq: 1 year of high school algebra. Cr. 3. \$96.

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| a. M. W. F. 8:00-8:50 a.m. | Mather 225 |
| b. M. W. F. 9:05-9:55 a.m. | Mather 225 |
| c. M. W. F. 2:20-3:10 p.m. | Mather 131 |
| d. T. Th. 6:30-7:45 p.m. | Mather 125 |

109. **ANALYTIC GEOMETRY AND CALCULUS I.** Study of conic sections and other algebraic curves, limits and continuity, differentiation, anti-derivatives. Prereq.: 3½ years of high school mathematics including trigonometry. Cr. 3. \$96.

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| a. M. W. F. 8:00-8:50 a.m. | Mather 125 |
| b. M. W. F. 9:05-9:55 a.m. | Mather 25 |
| c. M. W. F. 9:05-9:55 a.m. | Baker 14 |
| d. M. W. F. 9:05-9:55 a.m. | Baker 216 |
| e. M. W. F. 1:15-2:05 p.m. | Mather 131 |
| f. M. W. F. 2:20-3:10 p.m. | Mather 226 |
| g. M. W. F. 2:20-3:10 p.m. | Mather 136 |
| h. T. Th. 8:00-9:15 a.m. | Mather 125 |
| j. T. W. F. 3:25-4:15 p.m. | Mather 131 |
| k. M. W. 8:00-9:15 p.m. | Mather 126 |
| m. T. Th. 6:30-7:45 p.m. | Mather 238 |

110. **CALCULUS II.** Differentiation of transcendental functions, techniques of integration and applications. Prereq.: Mathematics 109. Cr. 3. \$96.

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| a. M. W. F. 10:10-11:00 a.m. | Mather 131 |
| b. M. W. F. 2:20-3:10 p.m. | Mather 144 |
| c. T. Th. 8:00-9:15 p.m. | Mather 238 |

199. **ACCELERATED CALCULUS I.** Prereq.: Permission of the department through Deans' Offices. Cr. 3. \$96.

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| a. M. W. F. 9:05-9:55 a.m. | Mather 223 |
| b. M. W. F. 2:20-3:10 p.m. | Mather 122 |

209. **CALCULUS III.** Further techniques of integration and applications, improper integrals, partial differentiation. Prereq.: Mathematics 110 or 199. Cr. 3. \$96.

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| a. M. W. F. 9:05-9:55 a.m. | Baker 15 |
| b. M. W. F. 10:10-11:00 a.m. | Mather 225 |
| c. M. W. F. 2:20-3:10 p.m. | Mather 25 |
| d. M. W. 8:00-9:15 p.m. | Mather 131 |

301. **MATHEMATICS IN THE ELEMENTARY SCHOOL.** Principles of teaching arithmetic, organization of learning materials for pupils in the elementary school. Cr. 3. \$96.

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| T. Th. 6:30-7:45 p.m. | Baker 4 |
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303. **ELEMENTARY MATHEMATICS FROM AN ADVANCED POINT OF VIEW.** Number theory, set theory, functions, topics in modern algebra. Prereq.: Mathematics 200 or 210. Cr. 3. \$96.

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| T. Th. 9:30-10:45 a.m. | Baker 216 |
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351. **TOPICS IN ADVANCED CALCULUS I.** Prereq.: Mathematics 200 or 210. Cr. 3. \$96.

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| M. W. 4:30-5:45 p.m. | Mather 131 | Ullrich |
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MEDICAL TECHNOLOGY

212. **TECHNICIAN TRAINING II.** Cr. 10. \$320.
As arranged.

MUSIC

001. **CLASS PIANO.** Introduction to the Keyboard. For non-music majors. Required for majors in Elementary Education unless exempted by examination. Cr. 0. \$32.

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| a. F. 9:05-9:55 a.m. | Music House 20 | Heller |
| b. F. 10:10-11:00 a.m. | Music House 20 | Heller |
| c. T. 7:30-8:20 p.m. | Music House 20 | Heller |

101. **THEORY I.** Intervals, scales, rhythmic drill, sight singing, ear training, keyboard work, and harmony through inversions of triads and seventh chords. Cr. 3. \$96.
M. W. F. 9:05-9:55 a.m. Music House 21 Garnett
Practice session: T. Th. 8:30-9:05 a.m.

TIMES FOR EVENING COURSES ARE INDICATED BY BOLD FACE TYPE

141. BRASS INSTRUMENTS I. Development of knowledge and skills necessary for elementary performance. Techniques and materials for effective class teaching. Participation required in University performing group as advised. Cr. 1. \$32.
T. Th. 9:30-10:45 a.m. Harkness Instrumental Room Shetler

143. STRING INSTRUMENTS I. Techniques and materials for effective class teaching. Participation required in University performing group as advised. Cr. 1. \$32.
M. W. 10:10-11:00 a.m. Harkness Instrumental Room Kilinski

145. WOODWIND INSTRUMENTS I. Techniques and materials for effective class teaching. Participation required in University performing group as advised. Cr. 1. \$32.
M. W. 1:15-2:05 p.m. Harkness Instrumental Room Small

147. VOCAL CLASS METHODS I. Instruction in class methods of teaching voice. Cr. 1. \$32.
M. W. 11:15 a.m.-12:05 p.m. Music House 21 Garnett

203. THEORY III. Intermediate and advanced harmony through modulation and chromatic chords. Correlative sight singing, ear training and keyboard work. Prereq.: Music 102 or equivalent. Cr. 3. \$96.
M. W. F. 9:05-9:55 a.m. Music House Annex 21 Gee
Practice session: M. W. F. 8:00-8:50 a.m.

213-3. APPRECIATION I: Introduction to Music. Study of melody, harmony, rhythm and tone color. Chief musical forms and selected masterpieces. Prescribed reading and listening. Cr. 3. \$96.
a. M. W. F. 10:10-11:00 a.m. Harkness Chapel Blodgett
b. M. W. F. 1:15-2:05 p.m. Harkness Chapel Kilinski
c. T. Th. 9:30-10:45 a.m. Harkness Chapel Kilinski
d. T. Th. 12:50-2:05 p.m. Harkness Chapel Blodgett
(For Music and Music Education majors. Others by consent of instructor.)

213-2. APPRECIATION I: Introduction to Music. Cr. 2. \$64.
e. W. 8:00-9:45 p.m. Hatch Auditorium Payne

215. APPRECIATION III. The Literature of the Symphony. Analysis and discussion of essential details, form, style, instrumentation. Prereq.: Music 213. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. Music House 20 Blodgett

251. CONDUCTING AND SCHOOL MUSIC LITERATURE II. Choral and instrumental materials for use in junior and high schools. Observation of University groups required. Cr. 2. \$64.
M. W. F. 11:15 a.m.-12:05 p.m. Music House 10 Gee

255. MUSIC IN THE ELEMENTARY SCHOOL I. Sight-reading, ear-training, eurythmics, dictation listening, singing, keyboard and song-flute playing. Not open to music majors. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Music House 10 Garnett
b. M. W. F. 1:15-2:05 p.m. Music House 10 Garnett

307. COMPOSITION IN SMALL FORMS I. Theoretical and creative work. Dance and homophonic forms generally. Writing for various instruments. Vocal writing; the setting of various texts. Prereq.: Music 204 or equivalent. Cr. 3. \$96.
M. Th. 1:15-2:30 p.m. Institute of Music Dick

311. ORCHESTRATION. Ranges and technical characteristics of orchestral and band instruments; music arrangements; scoring of accompaniments for given solos. Prereq.: Music 204. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Music House 21 Kilinski

321. HISTORY OF MUSIC I. Developments from early times to the present, especially great periods and composers. Reference to life and thought. Illustrated lectures; style analysis. Prescribed listening and reading. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Music House 10 Payne

357. INSTRUMENTAL MUSIC IN THE ELEMENTARY AND SECONDARY SCHOOLS. Organization, supervision and administration of curriculum; review of teaching materials and techniques, evaluation, public relations, audio-visual aids, program building, observation of classes. Cr. 3. \$96.
M. W. F. 9:05-9:55 a.m. Music House 10 Shetler

APPLIED MUSIC

Membership in the University Band, Choir, or Orchestra is available to part-time students. Contact the Department of Music for information.

333. UNIVERSITY BAND. With or without credit. Cr. 1. \$32.
W. 7:30-9:30 p.m., Th. 4:15-5:15 p.m.,
F. 4:30-6:00 p.m. Harkness Instrumental Room Small

335. UNIVERSITY CHOIR. Membership by try-out. With or without credit. Prereq.: Consent of instructor. Cr. 1. \$32.
M. T. W. 4:15-5:15 p.m. Adelbert 27 Blodgett

339. UNIVERSITY ORCHESTRA. Open to advanced instrumentalists. With or without credit. Prereq.: Consent of instructor. Cr. 1. \$32.
M. 7:30-9:30 p.m. Harkness Instrumental Room Kilinski

INDIVIDUAL INSTRUCTION IN APPLIED MUSIC

Vocal and instrumental subjects are taught by visiting instructors from the Cleveland Orchestra, and by faculty members of the University's Department of Music.

For information as to complete list of instructors and subjects, credit, fees, and practice facilities, see Western Reserve University Winter Session Roster of Courses, or confer with the Department of Music, 11039 Bellflower Road.

PHILOSOPHY

101. INTRODUCTION TO PHILOSOPHY. Basic problems of philosophy as found in politics, science, morality, religion, and art. Cr. 3. \$96.

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| a. M. W. F. 9:05-9:55 a.m. | Mather 122 | McLellan |
| b. T. Th. 9:30-10:45 a.m. | Mather 144 | Kadish |
| c. T. Th. 12:50-2:05 p.m. | Mather 226 | Levi |
| d. M. 3:25-4:15 p.m., | Mather 144 | Kadish |
| T. Th. 2:20-3:10 p.m. | | |
| e. T. Th. 6:30-7:45 p.m. | Mather 226 | |

201. INTRODUCTION TO LOGIC. Principles which determine whether or not conclusions follow necessarily from the evidence offered for them. Applications. Cr. 3. \$96.

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| a. M. W. F. 8:00-8:50 a.m. | Mather 122 | McLellan |
| b. M. W. F. 10:10-11:00 a.m. | Mather 122 | McLellan |

301. ANCIENT AND MEDIEVAL PHILOSOPHY. Western philosophy from the early Greeks to St. Thomas Aquinas. Emphasis on Plato, Aristotle, Epicureans, Stoics and St. Augustine. Cr. 3. \$96.

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| M. 3:25-4:15 p.m., T. Th. 2:20-3:10 p.m. | Mather 226 | Levi |
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350. INTERPRETATIONS OF HISTORY. Nature, function and meaning of human history. Examination of social process and historical inquiry; writing of philosophers and historians. Cr. 3. \$96.

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| T. Th. 12:50-2:05 p.m. | Mather 144 | Kadish |
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385. PHILOSOPHY OF LANGUAGE. The nature, evolution, and significance of religion and of religious experience. Prereq.: Philosophy 201. Cr. 3. \$96.

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| T. Th. 9:30-10:45 a.m. | Baker 219 | Levi |
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PHYSICAL EDUCATION

101, 102, 203, 204. (Men) ACTIVITIES FOR FRESHMAN AND SOPHOMORE YEARS. Cr. 0. Adelbert Gym. Swimming classes at Case Institute Pool. Staff.

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| a. M. W. F. 9:05-9:55 a.m. | |
| b. M. W. F. 10:10-11:00 a.m. | |

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| c. M. W. F. 11:15 a.m.-12:05 p.m. | |
| d. M. W. 2:20-3:35 p.m. | |
| e. T. Th. 9:30-10:45 a.m. | |
| f. T. Th. 2:20-3:35 p.m. | |
| g. T. Th. 2:20-3:35 p.m. Fencing only | |
| h. M. 2:20-4:00 p.m. Beginning and Intermediate Swimming. | |
| Prereq.: Physical Education 101. | |
| j. T. 2:20-4:00 p.m. Beginning and Intermediate Swimming. | |
| Prereq.: Physical Education 101. | |
| k. W. 2:20-4:00 p.m. Beginning and Intermediate Swimming. | |
| Prereq.: Physical Education 101. | |
| m. Th. 2:20-4:00 p.m. Red Cross Life Saving. | |
| Prereq.: Physical Education 101 and ability. | |
| n. F. 1:15-2:55 p.m. Judo only. | |

101, 102, 203, 204. (Women) ACTIVITIES FOR FRESHMAN AND SOPHOMORE YEARS. Cr. 0.

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| As arranged | Mather Gym | Staff |
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155. ELEMENTARY PHYSIOLOGY. See Biology 155.

205, 206. (Men) ADVANCED ACTIVITIES FOR JUNIOR AND SENIOR YEARS. For Physical Education majors. Cr. 1, 1. \$32, \$32.

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| As arranged | Adelbert Gym | Staff |
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205, 206. (Women) ADVANCED ACTIVITIES FOR JUNIOR AND SENIOR YEARS. For Physical Education majors. Cr. 1, 1. \$32, \$32.

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| As arranged | Mather Gym | Staff |
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225. (Men) TEACHING OF APPARATUS AND TUMBLING STUNTS. Cr. 2. \$64.

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| T. Th. 1:15-2:55 p.m. | Adelbert Gym | Grueninger |
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309. CHILD DEVELOPMENT AND HEALTH. See Home Economics 309.

311. (Women) HISTORY AND PRINCIPLES OF SPORTS I. Methods of teaching and officiating in team games and individual sports. Analysis of skills, technique, history, rules, and teaching progression. Cr. 3. \$96.

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| T. 2:20-4:00 p.m. plus | Mather Gym | Smith |
| 2 laboratory hours as arranged | | |

316. (Women) THE DANCE IN PHYSICAL EDUCATION. History and philosophy. Analysis of fundamental rhythms; modern, folk and square dancing. Adaptation to various age groups. Cr. 2. \$64.

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| W. 1:15-2:30 p.m. plus | Mather Gym | Karipides |
| 1 laboratory hour as arranged | | |

317. (Women) **TEACHING OF GYMNASTICS.** Analysis of exercises, their effect, execution, presentation, and progression. Cr. 2. \$64.
As arranged Staff

318. (Women) **PRINCIPLES OF PHYSICAL EDUCATION.** Influence of historic events and the nature of youth with respect to program development and the evaluation of outcomes in physical education. Cr. 2. \$64.
T. 12:50-2:30 p.m. Mather Gym Russell

319. (Women) **METHODS OF TEACHING PHYSICAL EDUCATION.** Theory and practice in teaching and officiating in team games, individual sports and development activities. Cr. 2. \$64.
As arranged Staff

321. (Men) **ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION.** Cr. 2. \$64.
W. F. 1:15-2:05 p.m. Karl Davis Annex Lewis

332. **CARE AND PREVENTION OF INJURIES AND ATHLETIC TRAINING.** Mechanotherapy, massage, diathermy, hydrotherapy and bandaging. First aid. Lecture-demonstrations. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Karl Davis Annex Finnigan, Grueninger

335. **PRINCIPLES OF HEALTH EDUCATION.** School and public health education, health examinations, protective measures, health of the school environment, the health committee and personnel. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. Karl Davis Annex Finnigan

345. (Men) **METHODS OF TEACHING GYMNASTIC DRILLS.** Teaching of calisthenics, with and without hand apparatus, marching tactics, mimetics and mass combatives. Cr. 2. \$64.
M. 1:15-2:55 p.m. plus Karl Davis Annex Grueninger
3 laboratory hours as arranged

403. **PHYSICAL EDUCATION FOR ELEMENTARY SCHOOL TEACHERS.** Cr. 3. \$96.
W. 7:30-9:30 p.m. Lakewood Vejdocev

PHYSICS

(Classes at the Laboratory of Physics)

103 **INTRODUCTORY PHYSICS I.** Physical principles and their applications, with particular emphasis on atomic and nuclear physics. Prereq.: Mathematics 103 or 3 1/2 years high school mathematics including trigonometry. Cr. 4. \$128.
a. M. W. F. 9:05-9:55 a.m. plus lab. Room 310 Major

b. T. Th. 6:30-7:45 p.m. plus lab. Room 310 Machlup
Laboratory: 1. M. 1:15-4:15 p.m., or
2. T. 1:15-4:15 p.m., or
3. W. 1:15-4:15 p.m., or
4. Th. 1:15-4:15 p.m., or
5. F. 1:15-4:15 p.m., or
6. Th. 8:00-11:00 p.m.

203. **INTERMEDIATE PHYSICS I.** Mechanics, wave motion, sound, heat, thermodynamics, light, electricity and magnetism, using calculus. Prereq.: Mathematics 110 and one year of high school or college physics. Cr. 4. \$128.
a. M. W. F. 8:00-8:50 a.m. plus lab. Room 310 White
(Architecture students only)
b. M. W. F. 10:10-11:00 a.m. plus lab. Room 310 Zinsel, Casper
Laboratory: 1. M. 1:15-4:15 p.m., or
2. W. 1:15-4:15 p.m., or
3. F. 1:15-4:15 p.m.

Physics 204 and Mathematics 204 or 210, or their equivalent, are prerequisite to all advanced undergraduate and graduate courses.

321. **CLASSICAL MECHANICS I.** Statics and dynamics of particles, rigid bodies, and continuous substances, small oscillations, wave motion, Lagrangian and Hamiltonian methods. Cr. 3. \$96.
M. W. F. 9:05-9:55 a.m. Room 209 Kisslinger

351. **ELECTROMAGNETISM I.** Electrostatics, electrodynamics, electromagnetism, direct and alternating currents, electrical measurements, circuit theory, Maxwell's equations and electromagnetic radiation, using vector analysis. Cr. 4. \$128.
M. W. F. 10:10-11:00 a.m., Room 207 McGervey
T. 1:15-4:15 p.m.

354. **WAVE THEORY.** Transmission, reflection, refraction, interference, and polarization of waves, solutions of the wave equation and boundary problems, with applications to acoustics, physical optics, and electromagnetic radiation. Prereq.: Physics 321. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Room 201 McGervey

361. **ATOMIC, NUCLEAR AND SOLID STATE PHYSICS I.** Black body radiation, special relativity, atomic structure and spectra, x-rays, crystal, molecular and nuclear structure, quantum properties of solids, radioactivity, nuclear forces, fission, fusion and cosmic rays. Prereq.: Physics 352. Cr. 4. \$128.
M. W. F. 11:15 a.m.-12:05 p.m., Room 201 Green
M. 1:15-4:15 p.m.

397. **HONORS THESIS.** Theoretical or experimental research. Limited to qualified seniors, who will be considered for departmental honors upon completion of a thesis. Prereq.: Physics 321, 352 and permission of the department chairman. Cr. 3. \$96.

As arranged

McGervey, Tauber

POLITICAL SCIENCE

101. **AMERICAN NATIONAL GOVERNMENT.** An examination of the constitution, federalism, political parties and pressure groups, congress, presidency, judiciary, and civil liberties. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m.	Baker 215	Secher
b. M. W. F. 10:10-11:00 a.m.	Baker 215	Rackow
c. M. W. F. 11:15 a.m.-12:05 p.m.	Baker 215	Secher
d. T. Th. 8:00-9:15 a.m.	Baker 215	Klain
e. T. Th. 9:30-10:45 a.m.	Baker 215	Rackow
f. T. Th. 12:50-2:05 p.m.	Baker 215	Bornfriend
g. T. Th. 6:30-7:45 p.m.	Baker 205	Klain
h. M. W. 6:30-7:45 p.m.	Lakewood	Day
j. M. W. F. 1:15-2:05 p.m.	Baker 215	Bornfriend

102. **PRINCIPLES OF POLITICAL SCIENCE.** Politics, nationally and internationally, utilizing comparative, historical and analytical approaches. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Baker 212	Isakoff
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203. **LOCAL GOVERNMENT.** Emphasis on cities and metropolitan areas, with reference to growth, legal status, politics, organization, and administration, including both general operations and selected functions. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Baker 210	Bornfriend
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215. **THE STRUGGLE FOR POWER.** Study of the *dramatis personae* of politics—organized interests, group leaders, opinion makers, public officials, unorganized masses; their characteristics, activities, objectives, weapons and tactics. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Baker 8	Bornfriend
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301. **PRINCIPLES OF INTERNATIONAL POLITICS.** Development of the sovereign state system; geographic, demographic, economic and ideological factors. Procedures for resolving the power struggle. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Baker 12	Hotz
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305. **PUBLIC ADMINISTRATION.** Forms of organization and personal administration, budgeting, and fiscal administration; the role of the executive; executive-legislative relationships; and the problems of public policy formation. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Baker 212	Isakoff
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324. **INTERNATIONAL ORGANIZATION.** Evolutionary development and present operation of institutions including the League of Nations, the United Nations and specialized agencies. The philosophic assumptions and sociological factors within the prevailing struggle for power. Cr. 3. \$96.

T. Th. 8:00-9:15 a.m.	Baker 212	Hotz
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325. **AMERICAN CONSTITUTIONAL LAW.** Court cases covering judicial review; federalism; relations between the President and Congress; taxing; spending and commerce powers; treaty and war powers. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Baker 215	Rackow
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331. **CLASSICAL AND MEDIEVAL POLITICAL THEORY.** Concepts of freedom and authority, state and society, justice and power, as presented by political philosophers from Plato to Locke. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Baker 210	Secher
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369. **GOVERNMENT AND POLITICS OF THE SOVIET UNION.** Soviet society and its background; the Soviet concept of the state; the role of the Communist party; the administration of a planned society; the Soviet Union in international affairs. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Baker 210	Secher
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390. **HONORS SEMINAR.** Limited to qualified Juniors and Seniors, in various fields of Political Science, who will be considered for departmental honors upon completion of a thesis and comprehensive examination. Prereq.: Junior or Senior standing plus permission of instructor or department chairman. Cr. 3. \$96.

As arranged		Hotz
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PSYCHOLOGY

(Psychology 101 is prerequisite to all other Courses)

101. **GENERAL PSYCHOLOGY.** Scientific study of behavior. Heredity and environment; the process of perception, learning, motivation, emotion and thinking; personal and social adjustment. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Biology 303	Albee
b. T. Th. 8:00-9:15 a.m.	Adelbert 27	Taber
c. T. Th. 9:30-10:45 a.m.	Adelbert 27	Otis
d. M. W. 8:00-9:15 p.m.	Mather 24	Taber
e. T. Th. 6:30-7:45 p.m.	Mather 24	Alexander
f. M. W. 6:30-7:45 p.m.	Lakewood	Fox

213. PSYCHOLOGY OF PERSONALITY. Theories of personality, and methods for assessing the person. Problems of personal adjustment. Cr. 3. \$96.

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| a. T. Th. 8:00-9:15 a.m. | Mather 25 | McConihe |
| b. T. Th. 12:50-2:05 p.m. | Mather 25 | Miles |
| c. T. Th. 6:30-7:45 p.m. | Mather 25 | Alvarez |

215. SOCIAL PSYCHOLOGY. Social, cultural influences and pressures. Dynamics of small groups, leadership, causes of minority and other social problems. Cr. 3. \$96.

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| a. M. W. F. 8:00-8:50 a.m. | Mather 24 | Mawardi |
| b. M. W. 6:30-7:45 p.m. | Lakewood | Ishiyama |

219. ELEMENTARY STATISTICS. See Statistics 219.

230. PSYCHOLOGY OF CHILDHOOD AND ADOLESCENCE. Basic facts and principles of psychological development from prenatal period through adolescence. Cr. 3. \$96.

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| a. M. W. F. 10:10-11:00 a.m. | Mather 24 | Norcross |
| b. M. W. F. 1:15-2:05 p.m. | Mather 24 | Norcross |
| c. M. W. 8:00-9:15 p.m. | Psychology 17 | Kessler |

304. EDUCATIONAL PSYCHOLOGY. See Education 304.

321. ABNORMAL PSYCHOLOGY. Major neurotic and psychotic patterns of personality adjustment and their principal symptoms, dynamics, etiology, and treatment. Cr. 3. \$96.

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| a. M. W. F. 8:00-8:50 a.m. | Mather 223 | Albee |
| b. T. Th. 9:30-10:45 a.m. | Psychology 17 | Miles |
| c. M. W. 6:30-7:45 p.m. | Mather 24 | Albee |

331. CHILD MANAGEMENT I. Introduction to the behavior of infants and preschool children and to the management of ordinary and special problems in these age groups. Cr. 2. \$64.

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| M. 4:00-5:45 p.m. | Baker 205 | Spock, Kessler |
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333. PRACTICUM IN CHILD MANAGEMENT. Supervised work in a residential center for emotionally disturbed children. Prereq.: Consent of instructor. Limited to 20 students. Cr. 3. \$96.

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| As arranged | Spock |
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351. COMPARATIVE PSYCHOLOGY. Facts and principles of behavior, derived from experimental work with animals, with emphasis upon learning, motivation, emotion and temperament. Cr. 3. \$96.

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| T. Th. 12:50-2:05 p.m. | Psychology 17 | Gluck |
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352. PHYSIOLOGICAL PSYCHOLOGY. The nervous system, endocrine glands, the receptor and effector mechanisms as they influence behavior and personality. Cr. 3. \$96.

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| a. M. W. F. 9:05-9:55 a.m. | Psychology 17 | Wilcott |
| b. M. W. 6:30-7:45 p.m. | Psychology 27 | Wilcott |

359. INDUSTRIAL PSYCHOLOGY. The findings of job attitude studies, principles of supervision, and problems of personal adjustment of people to jobs. Cr. 3. \$96.

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| a. M. W. F. 11:15 a.m.-12:05 p.m. | Mather 222 | Herzberg |
| b. T. Th. 6:30-7:45 p.m. | Psychology 17 | Liske |

390. SEMINAR IN PSYCHOLOGY. Major problems in psychology with emphasis on theory. Readings in psychological literature and preparation of papers required. For students majoring or minoring in psychology. Cr. 3. \$96.

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| T. Th. 8:00-9:15 a.m. | Psychology 27 | Norcross |
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READING IMPROVEMENT SERVICE

001. READING IMPROVEMENT. Cr. 0. \$48.

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| W. 8:00-9:45 p.m. | Hitchcock 306 | Shanberg |
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002. READING IMPROVEMENT. Prereq.: Successful completion of Reading Improvement 001, or evidence of undergraduate level reading ability. Cr. 0. \$48.

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| Th. 6:00-7:45 p.m. | Hitchcock 306 | Svetlik |
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003. SPECIAL PROBLEMS. Cr. 0. \$64.

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| As arranged | McConihe |
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REAL ESTATE

51. REAL ESTATE PRINCIPLES AND PRACTICES I. Cr. 0. \$64.

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| a. W. 6:00-7:45 p.m. | Baker 215 | Rowland |
| b. F. 6:00-7:45 p.m. | Real Estate Board, The Arcade | Braman |
| c. M. 6:00-7:45 p.m. | Lakewood | Wharton |

52. REAL ESTATE PRINCIPLES AND PRACTICES II. Cr. 0. \$64.

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| M. 6:00-7:45 p.m. | Real Estate Board, The Arcade | Jusek |
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53. VALUATION OF RESIDENTIAL PROPERTIES. Cr. 0. \$64.

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| W. 6:00-7:45 p.m. | Real Estate Board, The Arcade | Merrell |
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57. REAL ESTATE LAW. Cr. 0. \$64.

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| T. 6:00-7:45 p.m. | Real Estate Board, The Arcade | Close |
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63. REAL ESTATE SALES AND BROKERAGE. Cr. 0. \$64.

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| Th. 6:00-7:45 p.m. | Real Estate Board, The Arcade | Jarus |
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RELIGION

201. **THE ENGLISH BIBLE.** The Old Testament. Introduction to the understanding and appreciation of the Old Testament as a classic of religion, history and literature. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m.	Mather 226	Wolfe
b. M. W. F. 10:10-11:00 a.m.	Mather 226	Wolfe

215. **THE TEACHINGS OF JESUS.** Their impact upon standards of conduct and belief in His times, and their implications for modern life. Cr. 3. \$96.

T. Th. 8:00-9:15 a.m.	Mather 225	Wolfe
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303. **AN INTRODUCTION TO THE HISTORY OF RELIGION I.** Origins and growth of the religions of primitive men; study of classical periods of major historical religions such as Buddhism, Judaism, Christianity and Islam. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Physics 310	Rigg
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353. **MUHAMMAD, THE KORAN AND ISLAM.** In the light of a pagan background and antecedents, a study of the life and teachings of Muhammad and the resultant foundations of Islam. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Mather 223	Rigg
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383. **MAGIC, THE DEVIL AND WITCHCRAFT.** Nature and functions of magic in the history of man; discussion of the witch cult in Europe as an example of the belief in and the acceptance of magic in practice. Cr. 3. \$96.

M. W. F. 1:15-2:05 p.m.	Mather 122	Rigg
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RUSSIAN

101. **ELEMENTARY RUSSIAN I.** Introduction to the basic structure of Russian with special emphasis on oral mastery of the language through automatic speech patterns. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Mather 24	Konrad
b. M. W. F. 1:15-2:05 p.m.	Mather 25	Konrad
c. M. W. 6:30-7:45 p.m.	Mather 25	Horn
d. T. Th. 6:30-7:45 p.m.	Mather 131	Poliakoff

201. **SECOND YEAR RUSSIAN I.** Grammar review, conversational practice and composition based on readings from Russian authors. Scientific texts for those majoring in science. Prereq.: Russian 102. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Baker 8	Horn
b. T. Th. 12:50-2:05 p.m.	Mather 136	Konrad
c. M. W. 8:00-9:15 p.m.	Mather 25	Horn

301. **INTRODUCTION TO RUSSIAN CLASSICAL LITERATURE.** Literary monuments from earliest times through the 18th century. Emphasis in 19th century on Pushkin, Lermontov, Gogol, Goncharov, Turgenyev, Tolstoy, Dostoevsky and Gorki. Prereq.: Russian 202. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Baker 206	Horn
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332. **TOLSTOY AND DOSTOIEVSKY.** Their techniques, convictions and influence. Open to students without training in the Russian language, although Russian majors will be expected to read in Russian. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m.	Mather 222	Konrad
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SOCIOLOGY

112. **PRINCIPLES OF SOCIOLOGY.** Science of society. Groups and classes, social psychology, laws of population; marriage, family, church, state; folkways and mores. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Mather 123	Rautenstrauch
b. M. W. F. 1:15-2:05 p.m.	Mather 123	Busch
c. T. Th. 9:30-10:45 a.m.	Mather 123	Lawrence
d. T. Th. 12:50-2:05 p.m.	Mather 123	Puckett
e. M. W. 8:00-9:15 p.m.	Mather 125	Slater
f. M. W. 8:00-9:15 p.m.	Lakewood	Vande Visse
g. M. W. F. 9:00-9:30 a.m.	WEWS	Busch

Beginning September 18 (by Television and Home Study) station WEWS, Channel 5.

201. **SOCIAL PATHOLOGY.** Dependent and handicapped groups, social provisions for their care. Prereq.: Sociology 112. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. plus	Mather 231	Schermerhorn
Monday or Wednesday afternoon field trips		

202. **CRIME AND DELINQUENCY.** Nature, causes and extent of crime. Cr. 3. \$96.

T. Th. 8:00-9:15 p.m.	Mather 125	Theriault
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203. **URBAN SOCIOLOGY.** Urban size and growth, redistribution of population and institutions, institutions for public welfare, demographic and ethnic factors of population, housing and city planning. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m. plus	Mather 144	Caplan
Tuesday or Thursday afternoon field trips.		
b. M. W. 6:30-7:45 p.m.	Lakewood	Vande Visse

205. **THE AMERICAN NEGRO.** Economic, religious, educational, political problems; prejudice, crime and delinquency; trends and proposed solutions. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Mather 131	Puckett
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219. **ELEMENTARY STATISTICS.** See Statistics 219.

301. **CULTURAL ANTHROPOLOGY.** Human relations among primitive peoples. Functional and diffusionist theories. Prereq.: Sociology 101 or 112. Cr. 3. \$96.
T. Th. 8:00-9:15 a.m. Mather 126 Lawrence

303. **SOCIAL CHANGE.** Processes, mechanisms and groups producing or resisting change in society and culture. A critical analysis of theories of social change. Cr. 3. \$96.
M. W. F. 10:10-11:00 a.m. Mather 123 Rautenstrauch

307. **MODERN SOCIAL MOVEMENTS.** Causes, types and processes of social unrest. Nationalism, agrarianism, labor and cooperative movements. Cr. 3. \$96.
M. W. F. 2:20-3:10 p.m. Mather 123 Busch

308. **MARRIAGE AND THE FAMILY.** Varying marriage and family customs. Present day marriage and family in this country; status of women; modern problems of the family. Cr. 3. \$96.
a. M. W. F. 11:15 a.m.-12:05 p.m. Mather 123 Busch
b. M. W. 6:30-7:45 p.m. Mather 122 Crain

310. **HUMAN NATURE AND THE SOCIAL ORDER.** Personality formation in terms of interrelations between constitutional and group membership determinants; development of roles and situational factors in the growth of human nature. Prereq.: Psychology 101 and Sociology 112. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Mather 231 Schermerhorn

312. **THE SOCIAL INSTITUTIONS OF RELIGION.** Religion as a social phenomenon; manifestations of "other-worldliness" in cultural life; rites, ceremonies, observances. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Mather 126 Lawrence

SPANISH

101. **ELEMENTARY SPANISH I.** Fundamentals of Spanish grammar. Development of the ability to read, write, speak and understand simple Spanish. Cr. 3. \$96.
a. M. W. F. 8:00-8:50 a.m. Mather 136 Serafini
b. M. W. F. 10:10-11:00 a.m. Baker 212
c. M. W. F. 1:15-2:05 p.m. Mather 226
d. M. W. 6:30-7:45 p.m. Mather 125 Pieri

102. **ELEMENTARY SPANISH II.** Prereq.: Spanish 101 or one year of high school Spanish. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. Mather 243 Serafini

201. **INTERMEDIATE SPANISH I.** Review and further study of grammar and idiomatic expressions; composition and conversation based upon Spanish literature. Prereq.: Spanish 102 or 2 years of high school Spanish. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Clark 206 Speros
b. M. W. F. 1:15-2:05 p.m. Mather 238 Speros
c. T. Th. 9:30-10:45 a.m. Mather 25 Viudez
d. M. W. 8:00-9:15 p.m. Mather 243 Nackes

202. **INTERMEDIATE SPANISH II.** Prereq.: Spanish 201 or three years of high school Spanish. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Baker 17 Nackes

211. **INTRODUCTION TO SPANISH LITERATURE I.** Prose and poetry from the 16th century. Frequent oral and written reports. Introduction to the method of *explicacion de textos*. Prereq.: Spanish 202 or 3 years of high school Spanish. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Baker 216 Viudez

301. **ADVANCED ORAL PRACTICE.** Development of fluency in speaking Spanish. Emphasis on correct sentence construction and on accuracy in the use of idiomatic vocabulary. Prereq.: Spanish 202 or equivalent. Cr. 3. \$96.
a. M. W. F. 2:20-3:10 p.m. Mather 243 Pinto
b. M. W. 6:30-7:45 p.m. Mather 225 Viudez

331. **LITERATURE OF THE BAROQUE AGE I.** Poetry and drama. Prereq.: Spanish 211, 212. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Mather 136 Gonzalez-Muela

341. **SPANISH AMERICAN LITERATURE I.** Emphasis on the Modernista movement. Prereq.: Spanish 211, 212. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Clark 204 Pinto

SPEECH

103. **PUBLIC SPEAKING.** Principles essential to the effective expression of ideas in everyday personal relationships as well as before audiences. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m. Mather 301 Kuhl
b. M. W. F. 10:10-11:00 a.m. Mather 126 Kuhl
c. M. W. F. 11:15 a.m.-12:05 p.m. Mather 136 Henderlinder
d. M. W. F. 1:15-2:05 p.m. Mather 301 Henderlinder
e. T. Th. 8:00-9:15 a.m. Mather 301 Staff
f. T. Th. 9:30-10:45 a.m. Mather 225 Stewart
g. T. Th. 12:50-2:05 p.m. Mather 301 Staff
h. M. W. 6:30-7:45 p.m. Mather 301 Staff
j. M. W. 8:00-9:15 p.m. Mather 301 Staff

107. VOICE AND DICTION. The scientific basis of speech and voice production. Effective habits in the use of voice. Group and individual exercise. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Mather 136	Stewart
b. M. W. F. 11:15 a.m.-12:05 p.m.	Mather 126	Kuhl
c. M. W. F. 1:15-2:05 p.m.	Mather 136	Stewart
d. T. Th. 9:30-10:45 a.m.	Baker 2	Staff
e. T. Th. 12:50-2:05 p.m.	Baker 2	Staff
f. T. Th. 8:00-9:15 p.m.	Mather 301	Staff

202. GROUP DISCUSSION. Group thinking designed to develop skill in the orderly, agreeable, open-minded exchange of ideas. Group experience and practice in the leadership of a discussion group. Cr. 3. \$96.

a. M. W. F. 2:20-3:10 p.m.	Mather 301	Henderlider
b. T. Th. 9:30-10:45 a.m.	Mather 301	Guthrie

204. PERSUASION. Influencing individuals and audiences by means of written and spoken appeals; psychological principles important in controlling belief and behavior. Lectures, collateral reading, and class speeches. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Mather 301	Guthrie
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210. INTRODUCTION TO BROADCASTING. Radio and television; technical aspects; governmental control, programs and program development. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Mather 44	Stewart
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307. FUNDAMENTALS OF SPEECH AND HEARING. Study, analysis, and measurement of the components and processes involved in the production and reception of speech. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Dauby House	Young
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308. INTRODUCTION TO SPEECH PATHOLOGY. Various common types of speech problems and speech therapy procedures. Observation of therapy in the Cleveland Hearing and Speech Center. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Dauby House 100	Pracek
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309. RADIO AND TELEVISION PROGRAM POLICY. Prereq.: Speech 210 or equivalent. Cr. 3. \$96.

M. 3:25-4:15 p.m., T. Th. 2:20-3:10 p.m.	Mather 301	Stewart
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311. ARGUMENTATION I. Principles involved in the orderly, logical solution of problems. Laws of reasoning and specimens of common errors in reasoning process. Causes, effects and remedies of prejudice. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Mather 301	Guthrie
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320. ORGANIZATION AND ADMINISTRATION OF PUBLIC SCHOOL SPEECH AND HEARING PROGRAMS. Consideration of the operation of speech and hearing programs and their coordination with other school activities. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Dauby House 101	Neidecker
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323. CLINICAL PRACTICE IN SPEECH PATHOLOGY. Therapeutic methodology with supervised participation in the Cleveland Hearing and Speech Center. Prereq.: Speech 308 and 321. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Dauby House 101	Neidecker
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344. TEACHING OF SPEECH. Attention to problems of stage fright and habit, to materials suitable for junior and high schools, and to the philosophy of speech education. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Mather 25	Henderlider
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351. PUBLIC DISCUSSION AND DEBATE I. Only for advanced students in the group from which are selected the speakers for the public "Forum" debates and discussions and the members of the intercollegiate debate teams. Cr. 3. \$96.

F. 3:30-5:30 p.m.	Mather 301	Kuhl
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366. INTRODUCTION TO AUDIOLOGY. Psycho-acoustics and basic anatomy and physiology which apply to audiology; hearing impairment and its social and educational consequences; hearing conservation. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Hearing and Speech Center 104	Yantis
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370. ORIENTATION IN LANGUAGE DEVELOPMENT FOR CHILDREN WITH HEARING IMPAIRMENTS. Philosophy of teaching children with hearing impairments, techniques for teaching language arts on the primary level. Cr. 3. \$96.

M. W. 4:30-5:45 p.m.	Dauby House 100	Bender
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LIBRARY SCIENCE

525. MATERIALS SELECTION. Selection and evaluation of books and non-book materials. Appraisal of standard aids in selection, of book reviewing media, and of other sources of information used in building library collections. Cr. 2. \$64.

a. Th. 7:00-8:15 p.m.	Freiberger 312	Warncke
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559. STORY-TELLING. Training and experience, the selection and adaptation of stories, and practice in telling to children in the Cleveland Public Library. Prereq.: Library Science 555 taken concurrently or consent of instructor. Cr. 2. \$64.

M. 4:30-6:20 p.m.	Freiberger 313	Gross
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575. INFORMATION PROCESSING ON COMPUTERS. Computer developments, functions performed, and organization of computers. Punched card systems and stored program computers surveyed in terms of information retrieval, scientific and business parameters. Programming, systems organization, and symbol manipulation, with emphasis on application of high speed computers. Problems run on the GE-225 computer. Cr. 2. \$64.

Th. 4:00-5:50 p.m.

Freiberger 313

Belzer

BUSINESS ADMINISTRATION

An asterisk (*) before the course number indicates courses giving credit toward the degree of Master of Business Administration. Graduate credit will be granted only to students who have been admitted to the Graduate Division of the School of Business.

ACCOUNTING

103. INTRODUCTORY ACCOUNTING I. Business organizations; sources of business assets and their uses; analyzing, classifying and recording transactions, adjusting and closing books; financial statements. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m.	Baker 214	Kung
b. T. Th. 9:30-10:45 a.m.	Baker 221	Braden
c. T. Th. 12:50-2:05 p.m.	Baker 221	Braden
d. M. W. 6:30-7:45 p.m.	Baker 8	Tucker
e. T. Th. 6:30-7:45 p.m.	Cancelled	
f. M. W. 8:00-9:15 p.m.	Lakewood	Hyde
g. T. Th. 8:00-9:15 p.m.	Baker 204	Hyde

104. INTRODUCTORY ACCOUNTING II. A continuation of Accounting 103 which is a prerequisite. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Baker 214	Kopy
b. M. W. 8:00-9:15 p.m.	Baker 8	Tucker

203. INTERMEDIATE ACCOUNTING I. Evaluation and presentation of items which appear on balance sheets. Prereq.: Accounting 104. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Baker 214	Guidos
b. T. Th. 8:00-9:15 p.m.	Baker 216	Alpern
c. M. W. 6:30-7:45 p.m.	Lakewood	Box

204. INTERMEDIATE ACCOUNTING II. Analysis and interpretation of accounting statements and reports for management purposes. Prereq.: Accounting 203. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m. Baker 216

Alpern

***303. ADVANCED ACCOUNTING I.** Partnerships, insurance, insolvencies, foreign exchange, estates and trusts, budgets; branch accounting, and consolidations. Prereq.: Accounting 204. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m.	Baker 214	Kopy
b. T. Th. 8:00-9:15 p.m.	Baker 214	Kopy

***305. FEDERAL TAXES.** Income tax laws and their application; preparation of tax returns. Prereq.: Accounting 204. Cr. 3. \$96.

a. M. W. 8:00-9:15 p.m.	Baker 221	Braden
b. M. W. 6:30-7:45 p.m.	Lakewood	Hyde

***306. ADVANCED FEDERAL AND STATE TAXES.** Federal corporate income taxes and Ohio taxes on corporations. Preparation of returns. Prereq.: Accounting 305. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m.	Baker 217	Knittel
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309. INTRODUCTORY COST ACCOUNTING. Material, labor, and overhead costs of processes, operations and units of product; inventory records; controlling accounts; factory ledgers; cost statements and reports. Prereq.: Accounting 104. Cr. 3. \$96.

a. T. Th. 9:30-10:45 a.m.	Baker 220	Dickerson
b. M. W. 6:30-7:45 p.m.	Baker 216	Dickerson

314. FUNDAMENTALS OF AUDITING. Verification of financial statements, transactions, and accounting procedures. Professional ethics. Internal control and audit. Prereq.: Accounting 204 and 309. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m.	Baker 212	Hyde
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***350. C.P.A. PROBLEMS.** Thorough review of accounting and auditing theory, and current tax laws; development of skill and speed in problem analysis and solution. Prereq.: Accounting 304 and written permission of the chairman. Cr. 4. \$128.

F. 6:30-9:30 p.m.	Baker 121	Stanley
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December 1, 1961-May 4, 1962

380. ELECTRONIC DATA PROCESSING. See Industry 380.

BANKING AND FINANCE

310. CREDITS AND COLLECTIONS. See M. and M. 310.

***336. BUSINESS CYCLES.** See Economics 336.

341. **MONEY AND BANKING.** Money and banking system of the U.S. including the nature and functions of money. Prereq.: Economics 201. Cr. 3. \$96.
 a. M. W. F. 11:15 a.m.-12:05 p.m. Baker 219 Welfling
 b. T. Th. 6:30-7:45 p.m. Baker 219 Welfling

355. **CORPORATION FINANCE.** Corporate financing methods of securing and managing capital; distribution of net income. Prereq.: Accounting 104. Cr. 3. \$96.
 a. M. W. F. 10:10-11:00 a.m. Baker 220 Dawson
 b. M. W. 8:00-9:15 p.m. Baker 220 Dawson

- *356. **INVESTMENTS.** Financial problems of individuals in purchasing stocks and bonds. Attention to current problems. Prereq.: Banking and Finance 355. Cr. 3. \$96.
 M. W. F. 9:05-9:55 a.m. Baker 220 Dawson

359. **INSURANCE.** Principles and practices of insurance corporations in the U.S. Open to Juniors and Seniors without prerequisite. Cr. 3. \$96.
 T. Th. 8:00-9:15 a.m. Baker 222 Lewis

BUSINESS LAW

329. **BUSINESS LAW I.** Legal problems most frequently met in business. Law of contracts, agency, bailments, sales and negotiable instruments. Cr. 3. \$96.
 a. M. W. F. 8:00-8:50 a.m. Baker 12 DeVinne
 b. T. Th. 8:00-9:15 p.m. Baker 221 Weidner

330. **BUSINESS LAW II.** Continuation of Business Law 329. Cr. 3. \$96.
 T. Th. 8:00-9:15 a.m. Baker 220 Weidner

ECONOMICS

201. **ECONOMIC PRINCIPLES AND PROBLEMS I.** National income; markets and business organization; labor; money, credit, banking, business fluctuations. Open to second semester freshmen. Cr. 3. \$96.

- a. M. W. F. 9:05-9:55 a.m. Baker 205 Barloon
 b. M. W. F. 10:10-11:00 a.m. Baker 221 Chang
 c. T. Th. 8:00-9:15 a.m. Baker 217
 d. T. Th. 12:50-2:05 p.m. Baker 217
 e. M. W. 8:00-9:15 p.m. Baker 219 Zaremba
 f. T. Th. 8:00-9:15 p.m. Baker 217 Crosby
 g. M. W. 8:00-9:15 p.m. Lakewood Hazlett

202. **ECONOMIC PRINCIPLES AND PROBLEMS II.** A continuation of Economics 201 which is a prerequisite. Cr. 3. \$96.
 a. M. W. F. 9:05-9:55 a.m. Baker 217 McMillan
 b. M. W. 8:00-9:15 p.m. Baker 212 Kopy

- *306. **INTERMEDIATE ECONOMIC THEORY.** Analysis, theory and practice. Demand and supply. Production and costs. Prices. Income distribution. Profits and the problem of stability of the economic system. Prereq.: Economics 202. Cr. 3. \$96.

- a. M. W. F. 9:05-9:55 a.m. Baker 12 Chang
 b. M. W. 6:30-7:45 p.m. Baker 12 Chang

- *309. **INTERNATIONAL ECONOMICS.** Evolution of the present international economy, stressing the change in institutional mechanisms as they are adapted to a changing world economy. Prereq.: Economics 202. Cr. 3. \$96.
 M. W. 6:30-7:45 p.m. Baker 219 Zaremba

- *313. **RAW MATERIALS AND INTERNATIONAL AFFAIRS.** See Geography 313.

- *316. **TRANSPORTATION.** See Marketing and Merchandising 316.

- *331. **LABOR PROBLEMS.** Collective bargaining; management and labor. Prereq.: Junior, senior and graduate standing. Cr. 3. \$96.
 M. W. 6:30-7:45 p.m. Baker 205 Young

- *336. **BUSINESS CYCLES.** Business fluctuations; cycle theories; proposals to maintain full employment; forecasting. Prereq.: Economics 202. Cr. 3. \$96.
 a. M. W. F. 10:10-11:00 a.m. Baker 217 McMillan
 b. M. W. 8:00-9:15 p.m. Baker 16 McMillan

359. **INSURANCE.** See Banking and Finance 359.

- *363. **COLLECTIVE BARGAINING.** See Industry 363.

- *391. **MANAGEMENT ECONOMICS.** See Industry 391.

INDUSTRY

249. **PRINCIPLES OF INDUSTRIAL MANAGEMENT.** Decisions in factory management, planning and controlling operations. Prereq.: Sophomore standing. Cr. 3. \$96.
 a. T. Th. 8:00-9:15 a.m. Baker 15 Heinlein
 b. T. Th. 6:30-7:45 p.m. Baker 12 Heinlein

254. ELEMENTS OF SUPERVISION. Recognition of individual differences, preventing problems, handling grievances, directing employees. Cr. 2. \$64.
M. 8:00-9:45 p.m. Lakewood Boros

257. WORK MEASUREMENT. Projects to develop skills in methods improvement, time study, analysis charting, balancing flow of work, and application of work standards to management decisions. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Baker 15 Cummins

260. OFFICE MANAGEMENT. See Office Administration 260.

304. EXECUTIVE DEVELOPMENT. Undergraduate credit only. Cr. 2. \$64.
M. 8:00-9:45 p.m. Baker 203 Clouse

***331. LABOR PROBLEMS.** See Economics 331.

353. PERSONNEL ADMINISTRATION. Labor market analysis, recruitment, selection, placement, training, merit rating, compensation practices, employee welfare, union relationships. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Baker 15 Dahl

***354. WAGE AND SALARY ADMINISTRATION.** Applicable legislation, basic criteria, job evaluation, job pricing, incentives, executive compensation, profit sharing, guaranteed wages, administrative controls. Prereq.: Industry 249. Cr. 3. \$96.
T. Th. 8:00-9:15 p.m. Baker 12 Pred

***363. COLLECTIVE BARGAINING.** Criteria in negotiation. Grievance procedures, mediation and arbitration techniques, contract design, and drafting. Prereq.: Industry 353 or Economics 331. Cr. 3. \$96.
T. Th. 6:30-7:45 p.m. Baker 15 Uhlik

***367. PRODUCTION SYSTEM CONTROL.** Emphasis on integrating work places and functions, communication mechanics needed to control variations, adjustment to changes. Relation of scheduling and control techniques to data processing systems. Cr. 3. \$96.
T. Th. 6:30-7:45 p.m. Baker 16 Cummins

372. SYSTEMS MANAGEMENT. Current problems, focusing on a systematic procedure for problem analysis and decision. Proper integration of production control, industrial engineering, quality control, maintenance. Prereq.: Accounting 104, Industry 257 and Statistics 219. Cr. 3. \$96.
M. W. 6:30-7:45 p.m. Baker 15 Munder

380. ELECTRONIC DATA PROCESSING. Development and possible applications of electronic data processing machines and auxiliary equipment to the uses of business, industry and government. Topics include: systems analysis, computer language, binary arithmetic, circuitry, and feasibility studies. Prereq.: Accounting 104 and Statistics 219. Cr. 3. \$96.

T. Th. 8:00-9:15 p.m. Baker 15 Uhlik

***384. STATISTICAL QUALITY CONTROL.** See Statistics 384.

***391. MANAGEMENT ECONOMICS.** American industries, basic technologies, raw materials, requirements, dynamics of progress, capital requirements, and markets. External forces analyzed and related to basic managerial problems. Prereq.: Senior or graduate standing and Economics 202. Cr. 3. \$96.
M. W. F. 10:10-11:00 a.m. Baker 15 Heinlein

***395. INDUSTRIAL RELATIONS.** Case study of dynamic situations. Integration of pertinent administrative principles and social disciplines. Prereq.: Senior or graduate standing. Cr. 3. \$96.
M. W. 6:30-7:45 p.m. Baker 16 Cordes

MANAGEMENT

399. BUSINESS POLICY. Case analysis to develop perspective and judgment through application of principles learned in other courses. Prereq.: Completion of all basic Business requirements. Cr. 3. \$96.
M. W. 8:00-9:15 p.m. Baker 18 Barloon

MARKETING AND MERCHANDISING

201. PRINCIPLES OF MARKETING. Channels of distribution, middlemen, methods of sale, warehousing, transportation, financing, price policies, competition, unfair trade practices, regulation of marketing activities. A survey of current practices. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Baker 222 Cox
b. T. Th. 12:50-2:05 p.m. Baker 222 Cox
c. M. W. 8:00-9:15 p.m. Baker 222 Bergman
d. M. W. 8:00-9:15 p.m. Lakewood Dugas

205. SALESMANSHIP. Economic and psychological relationships between customer needs, buying and product performance affecting sales of industrial goods, consumer goods, and intangibles. Cr. 2. \$64.
T. 8:00-9:45 p.m. Baker 210 Steinwart

***301. INDUSTRIAL MARKETING.** Principles and practices. How industrial goods are sold, channels of sale, industrial sales organization, and policies. Prereq.: M. and M. 201 or 340. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m. Baker 222 Lawyer

302. MARKETING POLICIES. Cases in marketing problems, advertising and sales administration; channels of distribution and promotional strategy. Analysis of trends. Prereq.: M. and M. 201. Not open to students who have completed M. and M. 202. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Baker 219 Hoffman

310. CREDITS AND COLLECTIONS. Nature and functions of credit; problems and duties of credit manager; credit information, terms, collection correspondence and methods. Prereq.: M. and M. 201 and Accounting 103. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m. Baker 210 Hoffman

***316. TRANSPORTATION.** Development of transportation systems; costs; rate determination; financing and management of carriers, water carriers, air lines, pipelines. Prereq.: M. and M. 201 or 340 or Economics 202. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m. Baker 204 Barloon

***349. SALES PERSONNEL AND SALES MANAGEMENT.** Organization; sales managers' functions; forecasting; quotas, territories; selection and training; expenses; supervision. Prereq.: M. and M. 301 or 302 or 340. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Baker 222 Lawyer

350. ADVERTISING PRINCIPLES. Psychological and economic factors determining advertising plans, appeals, and media. Layout typography and production methods. Prereq.: M. and M. 201. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m. Baker 222 Cox

366. MARKETING INSTITUTIONS. Activities of retailers, wholesalers, and related institutions in the marketing structure and as functionaries in the channels of distribution. Interrelationships with and services to producers and consumers in terms of marketing efficiency. Prereq.: Economics 202 and M. and M. 302. Not open to students who have completed M. and M. 362. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Baker 219 Hoffman

380. ELECTRONIC DATA PROCESSING. See Industry 380.

OFFICE ADMINISTRATION

150. OFFICE METHODS AND PROCEDURES. Emphasis on office responsibilities, including the establishment of proper records and follow-up systems and the handling of confidential transactions. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m. Baker 217 Nixon

254. ELEMENTS OF SUPERVISION. See Industry 254.

260. OFFICE MANAGEMENT. Comprehensive application of modern management principles and practices in the organization, operation and control of office functions. Cr. 2. \$64.

W. 8:00-9:45 p.m. Baker 217 Parker

323. EXECUTIVE SECRETARYSHIP. Responsibilities; preparation of office manuals and special reports; planning work schedules; selecting and testing clerical applicants. Cr. 2. \$64.

W. 6:00-7:45 p.m. Baker 210 Nixon

359. INDUSTRIAL PSYCHOLOGY. See Psychology 359.

380. ELECTRONIC DATA PROCESSING. See Industry 380.

STATISTICS

219. ELEMENTARY STATISTICS. Collection, presentation, analysis and interpretation of numerical data; tabular and graphic presentation; frequency distribution; central tendency; dispersion, skewness; normal curve; reliability and significance; simple correlation. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m.	Baker 220	Kutina
b. M. W. F. 11:15 a.m.-12:05 p.m.	Baker 220	Kutina
c. T. Th. 9:30-10:45 a.m.	Baker 217	Childs
d. M. W. 8:00-9:15 p.m.	Baker 204	Switzer
e. T. Th. 6:30-7:45 p.m.	Baker 8	
f. T. Th. 8:00-9:15 p.m.	Baker 8	
g. M. W. 6:30-7:45 p.m.	Lakewood	Hutchinson

***320. APPLIED BUSINESS STATISTICS.** Time series, secular trends, seasonal and cyclical movements, index number construction, budgeting. Prereq.: Statistics 219. Cr. 3. \$96.

M. W. 8:00-9:15 p.m. Baker 210

380. ELECTRONIC DATA PROCESSING. See Industry 380.

***384. STATISTICAL QUALITY CONTROL.** Shewhart control charts for variables; fraction defective and defects; statistical aspects of tolerances; statistical sampling plans; organization and management of the statistical-quality-control program. Prereq.: Statistics 219. Cr. 3. \$96.

M. W. 6:30-7:45 p.m. Baker 220 Berrettoni

This form must be mailed on or before September 2, 1961. After that date registration must be made in person.

REQUEST TO REGISTER BY MAIL — CREDIT COURSES and DEGREE PROGRAMS

CLEVELAND COLLEGE • Newton D. Baker Memorial Bldg. • 10950 Euclid Ave. • Cleveland 6, Ohio

*Do you wish to become a candidate for:

- ☐ a Bachelor's Degree?
(Bachelor of Arts,
Bachelor of Science,
Bachelor of Business Administration)

in what field? _____

- ☐ a Certificate in Business Administration?

*(Degree Candidates must follow procedure outlined under
"Who Can Take Courses" on page 4.)

Are you enrolling under the benefits of PL 550 (Korean)?

☐ Yes; ☐ No.

Are you a full-time employee of WRU? ☐ Yes; ☐ No.

Do you wish to enroll as an auditor? (See Page 4.) ☐ Yes; ☐ No.

Do you wish an appointment with a Counselor to help plan
a program of study? ☐ Yes; ☐ No.

(These two items for new students only:)

High School attended: _____

No. years: _____ Grad. Date: _____

College(s) attended:

Name	Dates	Degree
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Name _____
Last First Middle

Address _____
street & number city & zone

Telephone: business _____ ext. _____ home _____

Age: over 21? _____ If under 21, indicate date of birth _____

Occupation _____ former student of CC? _____ New student? _____

Other WRU Schools attended:

Year: _____ Degree: _____

Attention: Educational Counselor:

I have consulted the Schedule Booklet and would like to enroll for the following
course(s):

Course No.	Course Title	Days	Hours	Place
(Fill in spaces below as in the example on the first line.)				
English 333	Shakespeare I	T-Th	7:00-8:15 p.m.	Clark 203
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Please mail me the necessary forms to complete my registration by mail.

Note: If you wish to enroll for 12 hours or more, or in a 400 level course, or as a transient,
you must do so in person at the Cleveland College Office.

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1961



CLEVELAND COLLEGE OF WESTERN RESERVE UNIVERSITY



COURSES for COLLEGE CREDIT

NEWTON D. BAKER
MEMORIAL BUILDING
CLEVELAND, OHIO

Spring Session

1961

A Few Words from the President of Western Reserve University

Cleveland College is based upon the belief that education is a process that should continue throughout the entire life of an individual. The growing and maturing individual develops new interests, is faced with new opportunities and new problems. He must continue to learn new facts, new skills, and new techniques.

Cleveland College, organized as the unit of Western Reserve University to provide high quality university educational opportunities for adults, presents in this booklet all its credit courses for the coming semester. I hope you will find herein a course or courses which will be stimulating and challenging.

John S. Millis,
President



How to use this Booklet

IF you are interested in enrolling in courses for college credit or as part of a program of study leading to a degree . . .

READ PAGES 3 to 8 inclusive and see description of courses beginning on PAGE 9.

If you wish to enroll by mail see the mail enrollment form on PAGE 33.

In addition to the credit courses described in this booklet, Cleveland College through its Division of General Studies offers a variety of courses, institutes, workshops, lectures, and discussion programs for adults who wish to pursue their education at the University-level but who are not concerned to accumulate college credits. For information call the Division of General Studies, CEdar 1-7700, ext. 111, or write for the Division of General Studies Booklet, Cleveland College, Newton D. Baker Building, Euclid Avenue at Adelbert Road, Cleveland 6, Ohio.

CLEVELAND COLLEGE OF WESTERN RESERVE UNIVERSITY

JOHN S. DIEKHOFF, Ph.D., L.H.D., Dean

LESLIE E. BROWN, M.A., Dean of Administration

ALLAN F. PFLEGER, M.A., Assistant Dean and Director, Division of General Studies

WINIFRED S. KINDIG, B.A., Director of Counseling



Office of the Deans and Educational Counselors,
110 Newton D. Baker Memorial Building

Office of the Division of General Studies
116 Newton D. Baker Memorial Building

Opportunities and Challenges

Educational opportunities for adults are offered in University courses on a full-time or part-time basis, morning, afternoon or evening, through Cleveland College of Western Reserve University.

Men and women, employed full-time or part-time or not at all, may enroll in credit courses with or without being candidates for degrees. A schedule of interesting courses (one or more) can be worked out so as not to conflict with work or other schedules.

Four hundred courses for credit are offered, mornings, afternoons and evenings, mostly on the University campus at Euclid Avenue and Adelbert Road (both north and south of the avenue) . . . Evening courses are offered in the west side Center at Lakewood High School. Two college credit courses are offered by TV on WEWS, Channel 5.

All day and evening classes in courses for credit are conducted by the University faculty in Arts and Sciences and in Business. Spring Session begins February 7, 1961. Students can register by three methods. See "How to Enroll and Register" on page 5. Alert Americans are challenged by opportunities for greater knowledge and intellectual stimulus. In this booklet are many interesting challenges.

Calendar

COURSES FOR CREDIT AND DEGREE PROGRAMS SPRING SESSION 1961

REGISTRATION

February 3, 4, 6, Friday, Saturday, Monday
Final Day for Mail Registration — Postmarked Saturday,
January 28

SPRING SESSION CLASSES BEGIN

February 7, Tuesday

SPRING RECESS

April 2-9, Sunday to Sunday
May 30, Tuesday, Memorial Day, a holiday

LAST DAY OF CLASSES

May 29, Monday

FINAL EXAMINATIONS

May 31-June 8, Wednesday to Thursday

SPRING SESSION ENDS

June 10, Saturday

CONVOCATION FOR AWARDING DEGREES

June 14, Wednesday

SUMMER SESSION 1st TERM BEGINS

June 19, Monday

For Registration Schedule See Page 5.

This Booklet

will acquaint you with the program of Cleveland College and tells how you may enroll for a single course or plan a program of studies designed to continue your education. It also contains regulations which you as a University student should know, together with information about University services which you will be using during your stay at Cleveland College.

HOW TO CHOOSE COURSES OF STUDY

This section of the folder contains a description of all undergraduate courses offered in the Spring Session of 1961. Courses are classified under ARTS AND SCIENCES, LIBRARY SCIENCE, and BUSINESS ADMINISTRATION. Departments are arranged alphabetically under these categories.

We suggest that you run through the courses quickly and make a note of the fields in which you might like to study. Then, go back and carefully consider the courses in those fields.

COUNSELING

Educational Counseling: After you have examined the course offerings you may wish to avail yourself of the services of the Cleveland College Educational Counseling Office. The Educational Counselors will help you select a single course or a group of courses designed to satisfy a specific objective. The Counselors are also prepared to help you plan a program of study which will lead to a Bachelor's degree or satisfy the requirements for pre-professional study in many fields. Persons who desire information regarding their educational plans or who wish to enroll for the first time are urged to request an appointment with an Educational Counselor. There is no obligation. Telephone CEdar 1-7700, Extension 613.

Veterans Counseling: Veterans studying under PL550 should consult the Veterans Counselor regarding any questions they have about their eligibility under the law. The Veterans Counselor is located in Room 8B, Adelbert Main Bldg. Telephone CEdar 1-7700, extension 294. During the regular registration dates the Veterans Counselor will be located in the Adelbert Gymnasium.

Who Can Take Courses . . .

ADMISSION INFORMATION

Students may enroll at Cleveland College either on a part-time or full-time basis. Students may attend either day or evening classes, or both.

Undergraduate students wishing to attend on a PART-TIME basis (less than twelve hours of credit) should make initial inquiry at the Cleveland College Counseling Office, Newton D. Baker Building, Cleveland 6, Ohio (CEdar 1-7700, extension 613).

Undergraduate students wishing to attend on a FULL-TIME basis should communicate with the University Director of Admission, Western Reserve University, Cleveland 6, Ohio (CEdar 1-7700, extension 721). Early application is urged in order that the University may give adequate consideration to all credentials.

There are three categories of admission to Cleveland College.

As Candidates for the Baccalaureate Degree:

Admission of High School Graduates: Graduates of approved secondary schools will be considered for admission provided their academic records meet the approval of the University Committee on Admission and provided they qualify on the basis of scholastic aptitude tests.

Admission of Transfer Students from other Colleges: Applicants possessing satisfactory records at other colleges of recognized standing will be considered for admission provided the college in question forwards an official transcript of record bearing a statement of honorable dismissal. Successful completion of a scholastic aptitude test may be required.

As Non-Degree Students:

Students may register through Cleveland College in credit courses as Non-Degree Students provided they are 21 years of age or over, and provided they have not attended another college or university. (Students who have previously attended another college or university must apply for degree candidacy). Non-degree students may become eligible for degree status when they meet satisfactorily the formal requirements for admission.

As Transient Students:

A Transient Student is defined as one who has begun his education at another

college or university to which he intends to return. Such students may be enrolled at Cleveland College as Transient Students for one semester on the basis of a letter from the Registrar of the home college stating that the student is in good standing. The application form for enrollment as a Transient Student may be obtained from the Educational Counseling Office of Cleveland College, Newton D. Baker Building.

As Auditors:

Students may register as Auditors, a status entitling them to attend classes but not to receive a grade or credit. Auditors must declare themselves at the time of registration. Students enrolled as Auditors pay the same fees as other students who are enrolled for credit.

TUITION AND FEES

Tuition: The cost of each course is indicated immediately after the description of the course. Tuition is computed on the basis of \$32.00 for each credit hour. Tuition and fees are due at the time of Registration. Checks and money orders should be made payable to Western Reserve University for the exact amount due. All part-time students (under 12 hours) pay a \$1.00 registration fee in addition to tuition. All full-time students pay a health fee of \$7.50 and a student activity fee of \$7.00 per semester.

PLAN	Carrying Charge	DATES PAYMENTS DUE			
		1st Payment	2nd	3rd	4th
Two payments	\$.50	At Registration	March 1		
Three payments	1.00	At Registration	March 1	April 1	
Four payments	1.50	At Registration	March 1	April 1	May 1

The office of the University Cashier, located in Room 6, Adelbert Main Building, is open Monday through Thursday until 7:00 p.m., Friday until 5:00 p.m. Students are expected to meet their payments without notice on dates due.

Veterans: Veterans who qualify under Public Law 550 make tuition payments as do other students: the total sum at Registration time or installments under the tuition payment plan. After certification they will be reimbursed monthly by the government.

How to Enroll and Register . . .

Three methods of registration have been devised for your convenience.

I. Pre-Registration Counseling: Beginning January 4, 1961, the Cleveland College counselors will be available for appointments to assist in program planning for the Spring term, which begins in February. At these interviews, selections of courses may be made and the student may then complete his registration by mail if he wishes. For appointments call CEdar 1-7700, extension 613.

II. Mail Registration: To initiate registration by mail, students may fill out the form on Page 33 and mail it to Cleveland College. When the courses have been approved the student will receive the forms by mail. For some, it will be necessary to come in for an interview before approval. When the student receives the "mail packet" (either by mail or in person) he can then return it to the Registrar, Western Reserve University, Cleveland 6, Ohio with his check or money order and his class cards will be mailed to him.

All requests for mail registration must be postmarked not later than Saturday, January 21, 1961.

All mail packets to the Registrar must be postmarked no later than Saturday, January 28, 1961.

III. At Registration Time: Cleveland College students may register on the dates, hours and places set forth in the Registration Schedule at right. Students wishing to register at the University Campus must call the Office, CEdar 1-7700, extension 613, for an appointment. Appointment cards enable students to register with a maximum of convenience and a minimum of delay. Appointments are not required for students registering at the Lakewood Center.

Late Registration: It is to the student's advantage to enroll before February 7, the first day of classes. However, late registrations will be accepted until Monday, February 13. An additional fee will be charged. Contact the Educational Counseling Office for late registration.

Withdrawals: To withdraw from a course or from the University, a student must complete an official withdrawal card and present it to the Dean of the College for approval. Those who withdraw after the 5th week in which classes are held are responsible for the full tuition. Those who withdraw earlier pay a portion of the tuition as outlined in the Undergraduate Bulletin and on the Withdrawal and Refund notice given each student at the final step of Registration.

CLEVELAND COLLEGE REGISTRATION SCHEDULE FOR COURSES FOR CREDIT AND DEGREE PROGRAMS

**Request for Mail Registration must be
postmarked by January 21.**

Mail Packets must be postmarked by January 28.

UNIVERSITY CAMPUS — Newton D. Baker Bldg.,
Euclid Ave. at Adelbert Rd. (Parking in Severance
Parking Lot, entrance from Bellflower Rd.)

Friday, February 3, 1:30-7:00 p.m.;

Saturday, February 4, 9:00 a.m.-12:00 m.;

Monday, February 6, 9:00 a.m.-12:00 m.; 1:30-7:00 p.m.

LAKEWOOD CENTER — Lakewood High School,
Bunts Rd. and Franklin Blvd.

Monday, February 6, Wednesday, February 8,
6:00-8:00 p.m.

LOCATION OF CLASSES FOR CREDIT COURSES

UNIVERSITY — SOUTH CAMPUS

Adelbert Gymnasium, 2128 Adelbert Road
Adelbert Main Building, 2040 Adelbert Road
Biology Building, 2080 Adelbert Road
Chemistry Building, (next to Eldred Hall)
Dauby House, 11212 Euclid Avenue
Eldred Hall, 2070 Adelbert Road
Geology and Geography Building, 2029 Adelbert Road
Hearing and Speech Center, 11095 Euclid Avenue
Hitchcock Hall, 11105 Euclid Avenue
Home Economics Building, 2023 Adelbert Road
Karl Davis House, 2128 Adelbert Road
Newton D. Baker Memorial Bldg., Euclid Avenue and Adelbert Road
Observation School, 2064 Stearns Road
Physics Building, 2060 Adelbert Road

UNIVERSITY — NORTH CAMPUS

Architecture House, 1715 Magnolia Drive
Architecture Studios, 1695 Magnolia Drive
Art Studios, 1615 Magnolia Drive
Behavioral Sciences Research Bldg., 1685 Magnolia Drive
Clark Hall, 11130 Bellflower Road
Freiberger Library, East Blvd. and Bellflower Road
Harkness Chapel, Mather Campus
Interior Design Studios, 1725 Magnolia Drive
Mather Gymnasium
Mather Memorial Building, Bellflower Road and Ford Drive
Music House and Annex, 11039 Bellflower Road
Psychology Laboratory, 1901 Magnolia Drive

OFF CAMPUS

Museum of Art, 11150 East Boulevard
Television Station: WEWS, 3001 Euclid Avenue
Cleveland Institute of Music, 3411 Euclid Avenue
Case Institute of Technology, 10900 Euclid Avenue
Warner and Swasey Observatory, 1975 Taylor Road
Lakewood High School, Bunts Road and Franklin Boulevard

CAMPUS PARKING FOR STUDENT CARS

Effective February 1, 1961, all parking for Western Reserve University, University Hospitals, and Case Institute of Technology is centralized for administration and control in the University Circle Development Foundation. Coupled with the assumption of responsibility for parking operation is a program of major increases in the inventory of parking space now underway by the U.C.D.F.

Basic rules of the University still apply, in that the privilege of parking on the campus is granted only to students who must drive cars to reach the campus. Permission cannot be granted to students who can use public transportation, or to those who live in dormitories, fraternity houses, or in private homes within walking distance of the campus. Overnight parking is not permitted on University property, except by permission and then only in designated places.

Students may apply for parking permits at the time of registration. The schedule of charges is as follows:

Full-time students, per semester (September 1 through January 31, or February 1 through June 30.) \$11.00.

Part-time students, attending classes for nine credit hours or less (graduate) and twelve credit hours or less (undergraduate), per semester, \$5.00.

Two terms of Summer Session, \$7.50.

One term of Summer Session — per term, \$3.75.

A booklet which lists parking lots available to students will be issued with each permit. Students who obtain parking permits agree to abide by the parking rules of the University and the University Circle Development Foundation. Violators are subject to fine, revocation of permit or to disciplinary action.

CTS Rapid Transit: Two stations are near the Campus. University-Cedar Stop is a short walk from the South Campus. A sidewalk short-cut runs from Fairchild Avenue near the CTS Station direct to Adelbert Road. The Euclid-East 120 Station is a short walk from the North Campus, or the Campus may be reached quickly by transfer to a No. 6 Euclid Avenue bus.

CTS Bus Lines: Express bus routes 30 and 28 and local bus route 6 run on Euclid Avenue with stops at the Campus.

IN-PLANT COUNSELING

Counselors are available for in-plant educational counseling and programming. Officials of business, industrial and community organizations wishing this service are invited to call Cleveland College, CEder 1-7700, Extension 613.

LAKEWOOD CENTER

Classes on Monday and Wednesday evenings in Lakewood High School, Bunts Road and Franklin Boulevard, co-sponsored by Lakewood Board of Education, and Western Reserve University. University credits, applicable toward a degree, may be earned in all courses offered.

(See the complete listing of courses for descriptions and times of the courses listed below.)

ACCOUNTING.....	103, 104, 204
BANKING AND FINANCE.....	355
BUSINESS LAW.....	330
ECONOMICS.....	202
EDUCATION.....	444
ENGLISH.....	102, 252
HISTORY.....	102, 212
INDUSTRY.....	254, 353
MARKETING AND MERCHANDISING.....	205
PHYSICAL EDUCATION.....	455
POLITICAL SCIENCE.....	102
PSYCHOLOGY.....	321, 352
SOCIOLOGY.....	207, 308
STATISTICS.....	219

NEW STUDENTS AT THE LAKEWOOD CENTER (and all those desiring to discuss a program of study) are urged to request an appointment with an Educational Counselor. See Page 5, How to Enroll and Register, I.

FORMER STUDENTS AT THE CENTER may wish to avail themselves of the convenience of the Mail Registration process. See Page 5, How to Enroll and Register, II.

TELECOURSES

Televised University courses over WEWS, Channel 5, may be taken for college credit by fulfilling home study and reading assignments, and by passing the final examinations. Those not seeking credit may purchase the Home Study Guides for \$3.00. (See course listings for times and descriptions.)

English 334, Shakespeare II.

Speech 341, Contemporary Public Address.

GRADUATE PROGRAMS OF STUDY

It is the policy of the University to encourage college graduates to continue their education at the graduate level. For entrance into The Graduate School or into the Graduate Division of the School of Business apply to the University Admission Office, 2040 Adelbert Road, Cleveland 6, Ohio, CEder 1-7700, Extension 721.

PROGRAMS OFFERED IN COOPERATION WITH THE SCHOOL OF BUSINESS

Certificate in Business Administration

A Certificate in Business Administration is awarded to students who have satisfied the admission requirements of degree candidates and have completed a specified 60 semester hours of work, with at least a C average.

Certified Public Accountancy Certificate

Training is offered to prepare students for the examinations required of applicants for C.P.A. certificate, although the examinations and the certificate are given only by the State Board of Accountancy.

Certificate in Real Estate

Several courses in Real Estate designed to prepare candidates for the State Examinations for licensed Real Estate brokers are offered in cooperation with the Cleveland Real Estate Board. For further details regarding these programs, consult the Division of General Studies Booklet or call the Division, CEder 1-7700, ext. 111.

DIVISION OF GENERAL STUDIES

(Courses begin February 7)

The Division of General Studies of Cleveland College serves adult residents of the community by providing opportunities for continued learning which are not part of any degree program. A separate booklet, available on request, describes the Non-Credit Courses, Study-discussion Programs, Institutes, Workshops and Public Lectures arranged by the Division. These do not lead to degrees but provide opportunities for serious pursuit of special intellectual interests. Program coordinators will be glad to help individuals or groups plan appropriate educational programs.

Courses usually meet one evening a week for one or two hours. Lasting for approximately eight weeks, they are concerned with *English and Writing, Speech, Literature, Philosophy, Sociology, Law, Arts and Teacher Education*.

Study Discussion programs are arranged for men and women interested in discussing *World Politics, American Foreign Policy, Democracy in America, Economics and Politics, Russian Foreign Policy, Transition and Tension in South East Asia, Politics 1960, Case Stories and Power to Govern*. In addition to the political discussion programs there are study discussion programs known as "Living Room Learning" devoted to discussing *Literature, Philosophy and Religion, The Arts, History and Democracy, Natural and Social Sciences, and Economics and Finance*.

Institutes and Workshops are designed to meet the educational problems of special groups in the greater Cleveland Community. Program coordinators will be glad to help groups plan appropriate educational programs.

Several Public Lectures have been scheduled for the Spring of 1961.

Numerous courses have been planned for men and women in business and industry. Represented are courses in *Foreign Trade, Real Estate, Management Training, Investments, Federal Income Taxes, Electronic Data Processing, Statistical Quality Control as well as communication courses for industrial personnel*.

For detailed information on programs and courses offered by Division of General Studies, call CEdar 1-7700 and ask for a special descriptive booklet.

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ARTS AND SCIENCES

ART AND ARCHITECTURE

121. DRAWING AND PAINTING II. Drawing from life, plants and objects; developing observation of form, structure and proportion. Required of Visual Art majors. Cr. 2. \$64.

a. M. W. 1:15-4:15 p.m.	Art Studios	Travis
b. T. Th. 8:00-11:00 a.m.	Art Studios	Grauer
c. T. Th. 1:15-4:15 p.m.	Art Studios	Sheridan
d. M. W. 6:30-9:30 p.m.	Art Studios	Grauer

151. DESCRIPTIVE GEOMETRY AND PERSPECTIVE DRAWING. Systems and applications of projection drawing, including shades and shadows; emphasis on development of spatial imagination, visual judgment and standards of presentation. Prereq.: Art and Architecture 150. Cr. 3. \$96.

a. T. Th. 8:00-11:00 a.m.	Interior Design Studios	Reeves, Schwartz
b. W. 1:15-5:15 p.m.	Interior Design Studios	Reeves, Schwartz

171. DESIGN WORKSHOP II. Development of skill and sensitivity in the use of space, structure form and texture through construction experiments with hand and power tools, utilizing various materials. Prereq: Art and Architecture 170. Cr. 1. \$32.

a. M. 1:15-4:15 p.m.	Architecture Studios	O'Sickey
b. F. 1:15-4:15 p.m.	Architecture Studios	O'Sickey

190. DESIGN AND CRAFTS. Adaptation of design to various materials, such as textiles, ceramics, metal, wood, linoleum. For majors in elementary education. Cr. 3. \$96.

a. T. Th. 9:30-10:45 a.m.	Art Studios	Adams
b. T. Th. 12:50-2:05 p.m.	Art Studios	Adams

206. INTRODUCTION TO ART HISTORY II. Preparations for an understanding of the humanistic relationships and enjoyment of painting, sculpture, and architecture; terminology and principles necessary to formation of judgments. Required of all Art majors. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Museum of Art	Pierce
b. M. W. 8:00-9:15 p.m.	Baker 12	Carter

221. DRAWING AND PAINTING II. Prereq.: Art 120 and 121 or consent of instructor. Cr. 1. \$32.

F. 1:15-4:15 p.m.	Art Studios	Grauer
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240. THE THEORY OF INTERIOR DESIGN. Art principles in relation to interior design. Design problems involving color, texture, shapes and space in interiors. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Interior Design Studios	Ball
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251. MATERIALS AND CONSTRUCTION II. The natural building materials of wood, stone and brick; physical and structural properties, proper use, limitations and combinations in building construction. Prereq: Art and Architecture 250. Cr. 3. \$96.

Th. 8:00-11:00 a.m., 1:15-5:15 p.m.		
F. 1:15-4:15 p.m.	Architecture House	Droppers, Schwartz

253. STRENGTH OF MATERIALS. Prereq: Art and Architecture 252. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Architecture House	Gensert, Hach
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281. VISUAL TRAINING II. Problems in the elements of design. Development of visual perception and aesthetic judgment. Required of all Visual Art majors. Prereq: Art and Architecture 280. Cr. 1. \$32.

W. 1:15-4:15 p.m.	Architecture House	Gould
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303. PRIMITIVE ART. Art forms in primitive cultures of Negro Africa, Oceania and Pre-Columbian America. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Museum of Art	Pierce
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312. MODERN ARCHITECTURE. 19th and 20th century tendencies and their relation to the cultural and historical perspective of the period. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Museum of Art	Chapman
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313. ART AND CIVILIZATION IN THE UNITED STATES. Architecture, painting, sculpture and other arts of the United States from colonization to present. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Museum of Art	Chapman
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322. ADVANCED DRAWING AND PAINTING. Representational composition based on out-of-doors subjects in any medium. Prereq: Art and Architecture 220, 221 or consent of instructor. Cr. 2. \$64.

a. M. W. 1:15-4:15 p.m.	Art Studios	Grauer
b. T. Th. 6:30-9:30 p.m.	Art Studios	Grauer

324. ADVANCED DRAWING AND PAINTING. Water color, oil, pastel and black and white media, using figure and costume models. Prereq: Art and Architecture 220, 221 or consent of instructor. Cr. 2. \$64.

a. M. W. 1:15-4:15 p.m.	Art Studios	Grauer
b. T. Th. 6:30-9:30 p.m.	Art Studios	Grauer

337. WORKSHOP IN WEAVING. Analysis of basic weaves, traditional and contemporary. Study of design, color and texture. Cr. 2. \$64.

a. Th. 1:15-4:05 p.m.	Interior Design Studios	Turobinski
b. M. 6:30-9:30 p.m.	Interior Design Studios	Turobinski

338. WORKSHOP IN ADVANCED WEAVING. Continued study of design in handweaving; special problems including those posed by contemporary interior architecture and design. Cr. 2. \$64.

a. Th. 1:15-4:05 p.m.	Interior Design Studios	Turobinski
b. M. 6:30-9:30 p.m.	Interior Design Studios	Turobinski

340. COLOR AND LIGHTING IN INTERIOR DESIGN. Problems solved through scientific knowledge of color; light stimulus and visual mechanism in colorants, dyes, paints and aesthetic ordering of color responses. Cr. 3. \$96.

T. 12:05-2:05, 2:20-5:30 p.m.	Interior Design Studios	Ball
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342. MATERIALS OF DECORATIVE ART. A study of decorative materials, i.e., textiles, woods, ceramics, in relation to their aesthetic use. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Interior Design Studios	Ball
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345. HISTORICAL FURNISHINGS. Historic decorative art with emphasis on furniture, textiles, ceramics, glass, metals and decorative accessories. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Interior Design Studios	Ball
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351. ARCHITECTURAL CONSTRUCTION II. Development of structural systems in bearing wall and skeleton types. Solution of foundation, wall, floor and roof construction. Prereq: Art and Architecture 350. Cr. 3. \$96.

M. 1:15-4:15 p.m.	Chaty, Droppers
T. 8:00-11:00 a.m., 1:15-5:15 p.m.	Architecture House

353. STRUCTURES II. Theory and design of steel structures: beams, columns, trusses, connections, and base plates. Prereq: Art and Architecture 254. Cr. 3. \$96.

M. W. F. 8:00-8:50 a.m.	Architecture House	Gensert, Hach
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355. STRUCTURES IV. Theory and design of reinforced concrete structures: beams, columns, floors, footings, and stairs. Prereq: Art and Architecture 354. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Architecture House	Gensert
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357. ARCHITECTURE II. Clarification of architectural principles: structure, space, proportion. The expression value of materials. Painting and sculpture in their relationship to architecture. Prereq: Art and Architecture 356. Cr. 3. \$96.

T. W. F. 1:00-6:00 p.m.	Architecture Studios	Priestley, Toguchi
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361. FUNCTION OF BUILDINGS II. Influences on the development of housing. Different types of housing and their relation to each other. Factors influencing the planning, location and size of community building. Prereq.: Art and Architecture 360. Cr. 2. \$64.

Th. F. 1:15-5:15 p.m.	Architecture House	Gould, Reeves
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363. PLANNING II. Analysis of the various city areas; their interrelationships and problems. Redevelopment of different parts of the present day city. Prereq.: Art and Architecture 362. Cr. 2. \$64.

M. Th. 1:15-5:15 p.m.	Architecture Studios	Gould
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381. VISUAL TRAINING IV. Problems in the elements of design. The development of visual perception and aesthetic judgment. Prereq: Art and Architecture 380. Cr. 1. \$32.

Th. 8:00-11:00 a.m.	Architecture House	Schwartz
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392. ELEMENTARY ART EDUCATION. Survey of trends. Opportunity to participate in and evaluate teaching procedures in the classroom. Cr. 3. \$96.

a. M. 1:15-2:05 p.m., W. 1:15-4:15 p.m.	Art Studios	Adams
b. T. 2:20-3:10 p.m., Th. 2:20-5:20 p.m.	Art Studios	Adams

ASTRONOMY

1C. DESCRIPTIVE ASTRONOMY. The physical universe stressing astronomical progress as a part of the evolution of human thought. For students who are not majoring in Astronomy, Mathematics or Physics. Prereq: Physics 103, 104. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Case	Nassau
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3C. ELEMENTS OF ASTRONOMY II. The sun, moon, planets and sidereal universe. Telescopic observations and constellation study. Prereq: Astronomy 2C. Cr. 2. \$64.

M. 7:30-9:30 p.m.	Warner and Swasey Observatory	McCuskey
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22C. THE STELLAR SYSTEM. Stars, star clusters, nebulae and external galaxies. Prereq: Astronomy 21C, or consent of instructor. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m.	Case	McCuskey
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102C. INTRODUCTION TO ASTROPHYSICS II. Interstellar material, variable stars, clusters and structure of the galaxy, evolution of stars, galaxies. Prereq.: Astronomy 101C. Cr. 3. \$96.

As arranged	Case	Blanco
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105C. INTRODUCTION TO RADIO ASTRONOMY. Antenna design and instrumentation for reception of extra-terrestrial radio waves, radiation from solar, planetary, galactic and extra-galactic sources. Prereq: Mathematics 210 and Physics 204. Cr. 3. \$96.

As arranged

Case

Stephenson

BIOLOGY

104. GENERAL BIOLOGY II. Structures and functions of living organisms. Similarities in the life processes of plants and animals. Evolution and genetics are central themes. Prereq.: Biology 103. Cr. 4. \$128.

a. M. W. 10:10-11:00 a.m. plus lab Biology 303, 206

Davis, Staff

b. M. W. 6:30-7:20 p.m. plus lab Biology 303, 206

Davis, Staff

Laboratory: 1. M. W. 1:15-3:05 p.m., or

2. M. W. 3:15-5:05 p.m., or

3. T. Th. 1:15-3:05 p.m., or

4. T. Th. 3:15-5:05 p.m., or

5. M. W. 7:30-9:20 p.m.

222. VERTEBRATE EMBRYOLOGY. Prereq.: Biology 221. Cr. 4. \$128.

a. F. 9:05-9:55 a.m. plus laboratory and recitation

Morrison, Rhea

Laboratory and recitation:

1. M. W. 8:00-10:45 a.m., F. 8:00-8:50 a.m., or

2. T. Th. 8:00-10:45 a.m., W. 9:05-9:55 a.m.

Biology 303, 206

b. T. Th. 6:00-10:00 p.m.

Biology 303, 206

Morrison, Rhea

231. INTERMEDIATE BOTANY. Prereq.: Biology 107. Cr. 3. \$96.

M. F. 11:15 a.m.-12:05 p.m.,

M. 1:15-4:05 p.m.

Biology 108

Alldrige

326. GENETICS. Mendel's laws, linkage and crossing over, mapping of chromosomes, population genetics, human genetics and the role of the gene in development. Prereq.: Biology 222 or Biology 231. Cr. 4. \$128.

M. W. F. 8:00-8:50 a.m., M. 2:30-3:30 p.m.

Steinberg

Biology 300, 202

332. STUDY OF FLOWERING PLANTS. Identification of wild and cultivated plants with aid of a key. Field work at Squire Valleevue Farm. Prereq.: Biology 231. Cr. 3. \$96.

M. W. 11:15 a.m.-12:05 p.m., F. 1:15-4:05 p.m.

Bole

Biology 400

334. PLANT PHYSIOLOGY. Prereq.: Biology 231 and Chemistry 222. Cr. 3. \$96.

T. Th. 8:00-8:50 a.m.

Biology 202

F. 1:15-4:05 p.m.

Field Station

Alldrige

355. ECOLOGY. Investigation of mutual inter-relationships between animals, plants, and the physical and chemical environment. Prereq.: Biology 107 and 108. Cr. 3. \$96.

T. Th. 9:30-10:20 a.m.,

Saturday as arranged

Biology 202, 108

Davis

360. GENERAL PHYSIOLOGY. Physical and chemical basis of physiological activities of living systems. Prereq.: Biology 221 and 304, Chemistry 222, and Physics 104. Cr. 3. \$96.

T. Th. 8:00-8:50 a.m.,

F. 1:15-4:05 p.m.

Mather 24, 26

Foreman

376. ZOOLOGICAL PROBLEMS II. Special work arranged according to the qualifications of the student. Prereq.: Permission of instructor. Cr. 3. \$96.

As arranged

Staff

CHEMISTRY

(All classes in the Chemistry Building and Pierce Hall)

103. PRINCIPLES OF CHEMISTRY I. For those who plan to take more than one year of chemistry. No previous knowledge of chemistry is required. Cr. 4. \$128.

M. F. 11:15 a.m.-12:30 p.m., F. 1:15-4:05 p.m.

Damerell

104. PRINCIPLES OF CHEMISTRY II. Prereq.: Chemistry 103. Cr. 4. \$128.

a. M. W. F. 9:05-9:55 a.m. plus lab

Petrucchi, Staff

b. M. W. F. 10:10-11:00 a.m. plus lab

Petrucchi, Staff

Laboratory: 1. M. W. 1:15-4:05 p.m. or

2. T. Th. 1:15-4:05 p.m.

c. T. Th. 6:30-10:20 p.m.

Petrucchi, Staff

106. ADVANCED PRINCIPLES OF CHEMISTRY II. Prereq.: Chemistry 103 or 105. Cr. 4. \$128.

M. W. F. 8:00-8:50 a.m., T. Th. 8:00-10:45 a.m.

Pace

222. **ORGANIC CHEMISTRY II.** Prereq.: Chemistry 221. Cr. 3. \$96.
 a. M. W. 11:15 a.m.-12:05 p.m. plus lab Lankelma
 b. T. Th. 9:30-10:20 a.m. plus lab. Lankelma
 Laboratory: 1. T. 1:15-4:05 p.m., or
 2. Th. 1:15-4:05 p.m.
 c. **M. 6:30-8:20 p.m., W. 6:30-9:20 p.m.** Crum

311. **INTERMEDIATE INORGANIC CHEMISTRY.** Relation of properties of elements to electron structures. Prereq.: minimum of twenty-two semester hours of chemistry including Chemistry 343 and 344, or consent of instructor. Cr. 3. \$96.
 M. W. 11:15 a.m.-12:05 p.m., F. 1:15-4:05 p.m. Chamberlain

322. **CHEMISTRY OF NATURAL PRODUCTS II.** Alkaloids, antibiotics, hormones, and vitamins. Prereq.: minimum of twenty-two semester hours in chemistry including Chemistry 327, or consent of instructor. Cr. 3. \$96.
 M. W. F. 11:15 a.m.-12:05 p.m. Crum

327. **INTERMEDIATE ORGANIC CHEMISTRY.** Reactions of organic chemistry. Laboratory applications to problems in synthesis and semimicro qualitative analysis. Prereq.: Chemistry 222. Cr. 4. \$128.
 T. Th. 6:30-10:20 p.m. Dannley

334. **QUANTITATIVE ANALYSIS I: GRAVIMETRIC AND VOLUMETRIC METHODS.** Prereq.: Chemistry 104 or 106. Cr. 4. \$128.
 M. W. 1:15-4:05 p.m. Damerell

335. **QUANTITATIVE ANALYSIS II: INSTRUMENTAL METHODS.** Prereq.: Chemistry 343, 344, or consent of instructor. Cr. 4. \$128.
 a. M. W. 8:00-8:50 a.m., T. Th. 8:00-10:50 a.m. Firestone
 b. **T. Th. 6:30-10:20 p.m.** Petrucci

340. **ELEMENTARY PHYSICAL CHEMISTRY.** Theory of solutions and electrochemistry. Prereq.: two years of college chemistry. Cr. 4. \$128.
 M. W. F. 9:05-9:55 a.m., plus lab. Hovorka
 Laboratory: 1. M. 1:15-4:05 p.m., or
 2. W. 1:15-4:05 p.m.

342. **COLLOID AND SURFACE CHEMISTRY.** Nature, preparation, and general behavior of colloidal substances. Prereq.: minimum of twenty-two semester hours in chemistry including Chemistry 343, 344, or consent of instructor. Cr. 2. \$64.
 T. 7:30-9:20 p.m. Damerell

344. **PHYSICAL CHEMISTRY II.** Prereq.: Chemistry 343, and Mathematics 200 or 210. Cr. 4. \$128.
 M. W. F. 10:10-11:00 a.m. plus lab. Firestone
 Laboratory: 1. T. 1:15-4:05 p.m., or
 2. Th. 1:15-4:05 p.m.

CLASSICS

(See also Greek and Latin)

342. **LATIN LITERATURE IN TRANSLATION.** Extensive and intensive reading in the literature of Rome. Cr. 3. \$96.
 T. Th. 12:50-2:05 p.m. Mather 225 Bliss

COMPARATIVE LITERATURE

342. **20TH CENTURY EUROPEAN DRAMA.** Tragic and comic spirit. Tradition and experimentation in works of playwrights from Ibsen to Jean-Paul Sartre. Cr. 3. \$96.
 M. W. F. 10:10-11:00 a.m. Baker 224 McCollom

DRAMATIC ARTS

202. **SPOKEN VERSE DRAMA.** Development of ability to read verse rhythmically and with meaning. Illustrated by recordings of contemporary actors. Cr. 3. \$96.
 T. Th. 9:30-10:45 a.m. Eldred Miles

224. **APPRECIATION OF THE THEATRE.** Theatre as an art form. Styles of production in leading theatres of America and Europe. Study of works of outstanding playwrights, directors, actors and designers. Cr. 3. \$96.
 a. M. F. 11:15 a.m.-12:05 p.m. Eldred Leathem
 b. **T. Th. 12:50-2:05 p.m.** Eldred Leathem

232. **ACTING TECHNIQUE II.** Rehearsal and performance of scenes and class exercises to develop creative imagination as a basis for acting. Prereq.: Dramatic Arts 231 or consent of instructor. Cr. 3. \$96.
 W. 1:15-3:45 p.m. Eldred Miles

241. **ELEMENTS OF TELEVISION.** TV facilities in dramatic and other educational programs. Experience at TV Station. Cr. 2. \$64.
 W. 6:00-7:45 p.m. Station WEWS Leathem

324. STAGECRAFT II. Technical problems of play production. Assignments in workshop and backstage during performances. Prereq: Dramatic Arts 323 or consent of instructor. Cr. 3. \$96.

T. Th. 1:15-4:15 p.m. and
other hours as arranged

Eldred

Kurth

337. PLAY WRITING I. Reading and discussion of plays by successful dramatists. Writing of adaptations and original plays. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.

Eldred

Leathem

388. MOTION PICTURE PRODUCTION II. Technical understanding and application in 16mm. field. Camera construction; optics; lighting; emulsions; exposing; sets, and direction. Cr. 3. \$96.

W. 6:30-9:30 p.m.

Observation School

Borza

EDUCATION

101. INTRODUCTION TO TEACHING IN THE ELEMENTARY SCHOOL. History, organization, curricula, objectives of elementary schools in the United States. Observation in public schools. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.

Mather 24

Emlaw

202. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. Methods of teaching reading, spelling, handwriting, and oral and written expression. Observation in public schools. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.

Mather 24

Weintraub

304. EDUCATIONAL PSYCHOLOGY. Background for understanding the psychological principles underlying modern theories of education. Basis for evaluating school practice at its best. Cr. 3. \$96.

a. T. Th. 8:00-9:15 a.m.

Mather 123

b. T. Th. 9:30-10:45 a.m.

Mather 123

Fleming

c. T. Th. 12:50-2:05 p.m.

Mather 123

Fleming

d. T. Th. 6:30-7:45 p.m.

Mather 231

Witcraft

306. CLASSROOM MANAGEMENT AND STUDENT TEACHING IN THE ELEMENTARY SCHOOL. Teaching under supervision of a training teacher and a supervisor from the University. Preparation of teaching materials; daily conferences. Prereq.: approval of the Student Teaching Committee. Cr. 6. \$192.

Daily, forenoons, as arranged

Emlaw, Forest, Weintraub

307. STUDENT TEACHING IN THE ELEMENTARY SCHOOL. A second period of teaching at a different level, involving more responsibility and participation in teaching. Prereq.: approval of the Student Teaching Committee. Cr. 6. \$192.

Daily, forenoons, as arranged

Emlaw, Forest, Weintraub

308. STUDENT TEACHING IN THE SECONDARY SCHOOL. Open only to students whose applications have been approved in advance. A quality point average of 2.5 in the teaching fields and an overall quality point average of 2.5 are necessary. Required of all students who qualify for Ohio provisional high school certificates. Cr. 6. \$192.

Daily, forenoons, as arranged

Malinchoc, Nixon, Sheridan

312. SECONDARY SCHOOL ADMINISTRATION AND MANAGEMENT. Problems as they concern the teacher. Planned to accompany Education 308. Prereq.: Education 314 or consent of instructor. Cr. 3. \$96.

a. T. Th. 2:20-3:35 p.m.

Mather 126

Malinchoc

b. T. Th. 4:30-5:45 p.m.

Mather 122

Malinchoc

314. PRINCIPLES OF TEACHING IN THE SECONDARY SCHOOL. Teaching as guidance to learning activities. Principles and techniques discussed, analyzed and observed in classroom visits. Cr. 3. \$96.

a. T. Th. 8:00-9:15 a.m.

Mather 126

Malinchoc

b. T. Th. 9:30-10:45 a.m.

Mather 126

Sheridan

341. EARLY CHILDHOOD EDUCATION II. Integration of readiness activities in language arts and numbers. Prereq.: consent of instructor. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m.

Mather 24

Forest

350. SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. Units for age levels providing for progress in tool subjects and evaluating progress and values. Cr. 3. \$96.

T. Th. 2:20-3:35 p.m.

Mather 24

Emlaw

444. THE ELEMENTARY SCHOOL: SPECIAL METHODS. Cr. 3. \$96.

b. W. 7:30-9:30 p.m.

Lakewood

ENGLISH

(For courses for Foreign Students, see Division of General Studies Booklet)

001. FUNDAMENTALS OF ENGLISH. Review of grammar, sentence structure, and punctuation; training and practice in writing compositions. Individual conferences. No Credit. \$96.

T. Th. 6:30-7:45 p.m.

Clark 109

McDougall

101. **ENGLISH COMPOSITION I.** Expository writing with a review of English prose. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Baker 8	Steese
b. M. W. F. 11:15 a.m.-12:05 p.m.		Steese
	Mather 25	
c. T. Th. 9:30-10:45 a.m.	Baker 2	Davis
d. M. W. 8:00-9:15 p.m.	Clark 203	Kummer
e. T. Th. 6:30-7:45 p.m.	Mather 226	Davis
f. T. Th. 8:00-9:15 p.m.	Clark 203	Adrian

102. **ENGLISH COMPOSITION II.** Expository writing, including a research paper. Limited reading of current literature. Prereq: English 101. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m.	Clark 203	Ziegler
b. M. W. F. 9:05-9:55 a.m.	Clark 206	Layer
c. M. W. F. 9:05-9:55 a.m.	Clark 301	Ziegler
d. M. W. F. 9:05-9:55 a.m.	Mather 126	Berke
e. M. W. F. 9:05-9:55 a.m.	Clark 106	Clarke
f. M. W. F. 10:10-11:00 a.m.	Clark 206	Reiss
g. M. W. F. 10:10-11:00 a.m.	Mather 126	Berke
h. M. W. F. 10:10-11:00 a.m.	Clark 106	Clarke
j. M. W. F. 11:15 a.m.-12:05 p.m.	Clark 206	Layer
k. M. W. F. 11:15 a.m.-12:05 p.m.	Baker 212	Hammond
m. M. W. F. 11:15 a.m.-12:05 p.m.	Clark 106	Waterman
(Admission by permission of Deans)		
n. M. W. F. 1:15-2:05 p.m.	Clark 206	Reiss
p. M. W. F. 1:15-2:05 p.m.	Clark 106	Hammond
r. T. Th. 8:00-9:15 a.m.	Clark 206	Lelyveld
s. T. Th. 8:00-9:15 a.m.	Clark 106	Farnham
t. T. Th. 9:30-10:45 a.m.	Clark 206	Lelyveld
u. T. Th. 9:30-10:45 a.m.	Mather 136	Greene
v. T. Th. 9:30-10:45 a.m.	Baker 210	Rehor
w. T. Th. 9:30-10:45 a.m.	Clark 109	Hamilton
(Admission by permission of Deans)		
x. T. Th. 12:50-2:05 p.m.	Mather 131	Murrah
y. T. Th. 12:50-2:05 p.m.	Clark 206	Marsh
z. T. Th. 12:50-2:05 p.m.	Baker 2	Friend
aa. T. Th. 12:50-2:05 p.m.	Clark 301	McFarland
(Admission by permission of Deans)		
bb. M. W. 6:30-7:45 p.m.	Clark 109	McDougall
cc. M. W. 8:00-9:15 p.m.	Clark 206	Greene
dd. T. Th. 6:30-7:45 p.m.	Clark 203	Reid
(For students with foreign background)		
ee. T. Th. 8:00-9:15 p.m.	Clark 109	McDougall
ff. M. W. 6:30-7:45 p.m.	Lakewood	Duff
gg. M. W. 8:45-10:00 a.m.	Institute of Music	Farnham

151. **INTERMEDIATE ENGLISH COMPOSITION.** Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Clark 204	Friend
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203. **ADVANCED COMPOSITION.** Practice in planning and writing expository essays such as feature articles, profiles, and reviews; individual conferences. Cr. 3. \$96.

M. W. F. 1:15-2:05 p.m.	Clark 212	Friend
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206. **PROSE WORKSHOP: NARRATIVE.** Cr. 2. \$64.

T. 8:00-9:45 p.m.	Clark 211	Hammond
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251. **FORMS OF NARRATIVE.** Including epic, tale, narrative satire and novel. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Mather 144	Murrah
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252. **DRAMA AND POETRY.** Selected to represent the chief classes of each. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Mather 144	Reiss
b. M. W. F. 10:10-11:00 a.m.	Clark 209	Reid
c. M. W. F. 1:15-2:05 p.m.	Clark 109	McDougall
d. T. Th. 9:30-10:45 a.m.	Clark 209	Layer
e. T. Th. 12:50-2:05 p.m.	Clark 209	Layer
f. M. W. 6:30-7:45 p.m.	Clark 203	Kummer
g. M. W. 8:00-9:15 p.m.	Lakewood	Duff

253. **REPRESENTATIVE ENGLISH AUTHORS TO 1800.** Major writers from Beowulf through the 18th century. Cr. 3. \$96.

M. W. F. 11:15 a.m.-2:05 p.m.	Clark 203	Friend
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254. **REPRESENTATIVE ENGLISH AUTHORS SINCE 1800.** Major writers from Wordsworth to the present. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Clark 203	Waterman
b. M. W. F. 10:10-11:00 a.m.	Clark 109	Marsh
c. T. Th. 9:30-10:45 a.m.	Clark 301	McFarland

302. **CREATIVE WRITING.** Practice in writing fiction and non-fiction on an advanced level. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Mather 243	Waterman
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311. **GROWTH AND STRUCTURE OF MODERN ENGLISH.** Cr. 3. \$96.

M. W. F. 2:20-3:10 p.m.	Clark 203	Levin
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321. **ENGLISH LITERATURE IN THE AGE OF CHAUCER.** From the Norman conquest to 1500. Emphasis on Chaucer. Cr. 3. \$96.

M. W. F. 1:15-2:05 p.m.	Clark 203	Waterman
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323. **ENGLISH LITERATURE OF THE 17TH CENTURY.** Development of English literature during secular and religious conflicts of the 17th century. Cr. 3. \$96.

M. W. F. 6:30-7:45 p.m. Clark 206 Reid

326. **ENGLISH LITERATURE OF THE VICTORIAN AGE.** The social and intellectual aspects of this period portrayed through the prose and poetry. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Clark 203 Adrian

328. **AMERICAN LITERATURE SINCE 1865.** Humanism, realism and naturalism, with attention to the conflict between tradition and revolt in the 20th century. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Clark 109 Kummer

334. **SHAKESPEARE II.** The great tragedies and tragi-comedies. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m. Clark 109 Rehor
b. M. W. F. 2:20-3:10 p.m. Clark 109 McFarland
c. M. W. F. 9:00-9:30 a.m. WEWS Stevenson
Beginning February 6 (by Television and Home Study) Station WEWS, Channel 5.

341. **THE ENGLISH NOVEL TO 1800.** Fiction from its beginning in the tale of romance to the novels of Scott. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Baker 18 Griffin

342. **19TH CENTURY ENGLISH NOVEL.** Survey of the novel from Scott to Hardy. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m. Mather 122 Murrah

351. **AMERICAN LIFE AND LETTERS IN THE 19TH CENTURY.** Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Mather 144 Hastings

352. **AMERICAN HUMOR.** Literary and social values in works of chief American humorists. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Clark 212 Kummer

353. **MODERN ENGLISH AND AMERICAN POETRY.** Reading in and discussion of chief English and American poets of last half-century. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Baker 212 Hammond

356. **GREAT BOOKS SINCE 1650.** Chief figures of Western literature from Molière to present. Not open to students who have completed English 256. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Clark 203 Jones

360. **HISTORY OF LITERARY CRITICISM.** Critical theories, ancient and modern, with application to English and American literature. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Clark 109 Marsh

384. **HONORS SEMINAR.** Intensive studies in literature required for all candidates for honors in English. Prereq.: permission of the department. Cr. 3. \$96.

M. W. F. 1:15-2:05 p.m. Clark 211 Hamilton

FRENCH

102. **ELEMENTARY FRENCH II.** Prereq: French 101, or one year of high school French. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m. Mather 238 Kline
b. M. W. F. 10:10-11:00 a.m. Mather 125 Osborn
c. M. W. F. 1:15-2:05 p.m. Mather 225 Gugger
d. T. Th. 9:30-10:45 a.m. Baker 14 Dunn
e. M. W. 8:00-9:15 p.m. Mather 231 Gugger

201. **INTERMEDIATE FRENCH I.** Review and further study of grammar and idiomatic expressions; composition and conversation based upon representative types of French literature. Prereq.: French 102 or 2 years of high school French. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m. Mather 243 Morrison

202. **INTERMEDIATE FRENCH II.** Review and further study of grammar and idiomatic expressions; composition and conversation based upon representative types of French literature. Prereq: French 201 or three years of high school French. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m. Mather 243 Furber
b. M. W. F. 11:15 a.m.-12:05 p.m. Mather 238 Dunn
c. M. W. F. 1:15-2:05 p.m. Mather 231 Kline
d. T. Th. 9:30-10:45 a.m. Baker 215 Morrison
e. T. Th. 12:50-2:05 p.m. Mather 125 Kupersmith
f. T. Th. 12:50-2:05 p.m. Baker 215 Burrell
g. M. W. 6:30-7:45 p.m. Baker 217 Burrell

212. **INTRODUCTION TO FRENCH LITERATURE II.** Reading of selected works of French literature. Further study with emphasis on speaking. Prereq: French 211 or four years of high school French. Cr. 3. \$96.

a. M. W. F. 2:20-3:10 p.m. Mather 226 Kupersmith
b. M. W. F. 2:20-3:10 p.m. Mather 126 Anagnostopoulos
c. T. Th. 9:30-10:45 a.m. Baker 216 Furber

302. **ADVANCED COMPOSITION.** Prereq: French 301 or permission of the chairman. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Mather 225 Kupersmith
b. M. W. F. 10:10-11:00 a.m. Mather 243 Lu'Lu'a

325. **METHODS OF TEACHING A FOREIGN LANGUAGE.** Analysis of language as a system of cultural communication. History of methodology with emphasis on aural-oral techniques for various levels including the *Cleveland Plan*. Conducted in English. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m. Mather 241 Kupersmith

342. **FRENCH LITERATURE OF THE 18TH CENTURY II.** Diderot and the *Encyclopédie*, Rousseau. Prereq: French 211, 212 or permission of chairman. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Mather 246 Crocker

352. **FRENCH LITERATURE OF THE 19TH CENTURY II.** Realism: Flaubert, Zola, Maupassant, Daudet, Becquet. Prereq: French 211 and 212 or permission of the chairman. Cr. 3. \$96.

M. W. F. 2:20-3:10 p.m. Mather 231 Osborn

362. **FRENCH LITERATURE OF THE 20TH CENTURY II.** The contemporary novel. Prereq: French 211 and 212 or permission of the chairman. Cr. 3. \$96.

M. W. F. 1:15-2:05 p.m. Mather 144 Furber

GEOGRAPHY

(All classes in Geography — Geology Building unless otherwise stated)

101. **FUNDAMENTALS OF GEOGRAPHY.** Survey of the natural environment. Interrelations of human life and elements of natural environment. Cr. 3. \$96.

a. T. Th. 9:30-10:45 a.m. Baker 203 Carlson
b. T. Th. 8:00-9:15 p.m. Room 1 Walmsley

102. **HUMAN GEOGRAPHY.** World survey of man's utilization of the earth. Cr. 3. \$96.

M. W. F. 8:00-8:50 a.m. Room 22 Carlson

201. **REGIONAL GEOGRAPHY OF ANGLO-AMERICA.** Presentation of natural resources and economic activities of the United States, Canada and Alaska. Prereq: Geography 101, or consent of instructor. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Room 1 Walmsley

276. **CLIMATOLOGY.** Survey of climates by continents; patterns, classifications; implications for human occupancy. Prereq: Geography 101, or consent of instructor. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m. Room 1 Walmsley

305. **GEOGRAPHY OF EUROPE.** Prereq: Geography 101, or consent of instructor. Cr. 3. \$96

M. W. F. 10:10-11:00 a.m. Room 1 Carlson

306. **GEOGRAPHY OF EXPLORATION AND SETTLEMENT.** World exploration and settlement with emphasis on United States. Prereq: Geography 101, or consent of instructor. Cr. 3. \$96.

M. W. 4:30-5:45 p.m. Room 1 Walmsley

312. **ECONOMIC GEOGRAPHY.** Geography of world commodities. Unequal distribution of natural resources; difference in economic development. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Room 22 Carlson

GEOLOGY

(All classes in Geology-Geography Bldg.)

101. **PHYSICAL GEOLOGY.** Dealing with the composition and structure of the earth's crust, development of land forms, volcanism, and earthquakes. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Room 22 Donner

102. **PHYSICAL GEOLOGY LABORATORY.** Lab study of minerals, rocks, and topographic maps. Prereq: Geology 101. Geology 101 and 102 may be taken concurrently. Cr. 1. \$32.

M. 1:15-3:15 p.m. Room 22 Hall

104. **HISTORICAL GEOLOGY.** Geologic history of the earth, ancient geography of seas and lands, and the evolution of animals and plants. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m. Room 22 Stehli
b. M. W. 6:30-7:45 p.m. Room 22 Hall

105. **HISTORICAL GEOLOGY LABORATORY.** Study of fossils, geologic cross-sections and geologic maps. Prereq.: Geology 104. Geology 104 and 105 may be taken concurrently. Cr. 1. \$32.

a. T. 1:15-3:15 p.m. Room 22 Hall
b. W. 1:15-3:15 p.m. Room 22 Hall
c. M. 8:00-10:00 p.m. Room 22 Hall

308. **PALEONTOLOGY.** Laboratory course giving survey of fossil invertebrates, classification and geologic range. Prereq: Geology 105. Cr. 3. \$96.

T. Th. 9:30-10:20 a.m., Th. 1:00-4:00 p.m. Room 3B Stehli

320. **GLACIAL GEOLOGY.** Study of glaciers, past and present. Prereq: Geology 304. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Room 22 Hall

GERMAN

102. ELEMENTARY GERMAN II. Study of the fundamentals of German grammar; the reading of easy modern texts. Prereq: 1 year of high school German or German 101. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m.	Mather 144	Polt
b. M. W. F. 8:00-8:50 a.m.	Clark 206	Loeschen
c. M. W. F. 9:05-9:55 a.m.	Clark 209	Bartelmez
d. T. Th. 8:00-9:15 a.m.	Clark 203	Loeschen
e. T. Th. 9:30-10:45 a.m.	Clark 106	Loeschen
f. T. Th. 12:50-2:05 p.m.	Mather 136	Brundrett
g. T. Th. 6:30-7:45 p.m.	Clark 206	Braasch
h. T. Th. 6:30-7:45 p.m.	Baker 16	Polt

201. INTERMEDIATE LITERARY GERMAN I. Reading of representative literary works with oral drill and composition. Prereq: German 102 or 2 years of high school German. Cr. 3. \$96.

T. Th. 8:00-9:15 a.m.	Clark 109	Polt
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202. INTERMEDIATE LITERARY GERMAN II. Reading of representative literary works with oral drill and composition. Prereq: 3 years of high school German, or German 201. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m.	Mather 126	Braasch
b. M. W. F. 11:15 a.m.-12:05 p.m.	Mather 144	Bartelmez
c. M. W. F. 11:15 a.m.-12:05 p.m.	Baker 8	Brundrett
d. M. W. F. 1:15-2:05 p.m.	Mather 126	Braasch
e. T. Th. 9:30-10:45 a.m.	Baker 212	Brundrett
f. T. Th. 6:30-7:45 p.m.	Clark 209	Loeschen

206. CONVERSATION AND COMPOSITION II. Development of accuracy in speaking and writing on topics of general interest. Not counted toward basic language requirement. Prereq.: German 205 or at least 6 hours of college German or permission of instructor. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Clark 211	Polt
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308. A SURVEY OF GERMAN LITERATURE II. Prereq: German 307, or 202, or four years of high school German, or permission of instructor. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Clark 106	Braasch
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325. METHODS OF TEACHING A FOREIGN LANGUAGE. Analysis of language as a system of cultural communication. History of methodology with emphasis on aural-oral techniques for various levels including the *Cleveland Plan*. Conducted in English. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m.	Mather 241	Kupersmith
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362. THE NINETEENTH CENTURY II. The drama from Tieck to Hauptmann. Prereq: German 361, or 202, or four years of high school German, or permission of instructor. Cr. 3. \$96.

M. W. 6:30-7:45 p.m.	Clark 211	Brundrett
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GREEK

102. ELEMENTARY GREEK II. Grammar and reading of elementary prose. Prereq: Greek 101 or equivalent. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Mather 241	Bliss
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202. SECOND YEAR GREEK II. Homer; selections from the *Iliad* or the *Odyssey*. Prereq: Greek 201. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Mather 241	Bliss
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308. GREEK COMEDY. Selections from Aristophanes and Menander. Prereq: Greek 202, or equivalent. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Mather 241	Levin
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HISTORY

102. WESTERN CIVILIZATION II. Introduction to the study of modern world. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Mather 223	Erickson
b. M. W. F. 10:10-11:00 a.m.	Mather 223	Erickson
c. M. W. F. 11:15 a.m.-12:05 p.m.	Mather 223	Siney
d. M. W. F. 1:15-2:05 p.m.	Mather 226	Siney
e. T. Th. 8:00-9:15 a.m.	Baker 203	Barnes
f. T. Th. 12:50-2:05 p.m.	Mather 231	Becker
g. M. 3:25-4:15 p.m., T. Th. 2:20-3:10 p.m.	Baker 203	Barnes
h. T. Th. 6:30-7:45 p.m.	Mather 223	Becker
j. M. W. 6:30-7:45 p.m.	Lakewood	Cruden

212. HISTORY OF THE UNITED STATES II. Reconstruction to the present. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Baker 203	Wish
b. M. W. F. 10:10-11:00 a.m.	Baker 203	Wish
c. T. Th. 8:00-9:15 a.m.	Baker 205	Greene
d. T. Th. 9:30-10:45 a.m.	Baker 221	Greene
e. M. W. 6:30-7:45 p.m.	Baker 203	Thornton
f. M. W. 8:00-9:15 p.m.	Lakewood	Cruden

242. HISTORY OF ENGLAND II. General survey. Special readings in constitutional history for pre-law students. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Baker 204	Barnes
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302. **EUROPE SINCE 1814 II.** Since 1870. Cr. 3. \$96.
M. W. F. 9:05-9:55 a.m. Mather 231 Siney
304. **MEDIEVAL CIVILIZATION.** Social and intellectual history of the Middle Ages. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Baker 205 Becker
330. **RUSSIA II.** Russia in Revolution; under Lenin, Stalin and others. Cr. 3. \$96.
M. W. F. 1:15-2:05 p.m. Mather 223 Erickson
362. **GROWTH OF AMERICAN SOCIETY, 1689-1763.** Maturing of American institutions and culture within the framework of the Old British Empire. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Mather 222 Greene
373. **LINCOLN TO THEODORE ROOSEVELT.** An intensive study by the topical method of the emergence of modern America. Cr. 3. \$96.
M. W. F. 9:05-9:55 a.m. Baker 221 Wittke
375. **DIPLOMATIC HISTORY OF THE UNITED STATES I.** Cr. 3. \$96.
M. W. F. 10:10-11:00 a.m. Baker 205 Cramer
382. **ECONOMIC HISTORY OF THE UNITED STATES II.** Industrial combinations, railroads, tariff, power, land use; federal subsidies. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. Baker 203 Wish

HOME ECONOMICS

(Classes in Home Economics Building unless otherwise stated)

101. **INTRODUCTION TO NUTRITION.** Bodily needs for various food constituents; factors influencing nutritive values of food, and relationship to other sciences. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Fischer
206. **MEAL PREPARATION AND SERVICE.** Managerial, economic and aesthetic factors; racial and national dishes; use and care of equipment. Prereq: Home Economics 205. Not open to students with credit in Home Economics 209 or 210. Cr. 3. \$96.
M. 10:10-11:00 a.m.,
W. F. 9:05 a.m.-12:05 p.m. Harvey
215. **ELEMENTARY CLOTHING CONSTRUCTION.** Commercial patterns and their adaptation to individual needs. Construction of simple garments in cotton, rayon, and wool. Not open to students with credit in Home Economics 213. Cr. 2. \$64.
F. 1:15-4:05 p.m. Turobinski

216. **PATTERN DESIGN.** Construction of a basic pattern to serve as a basis for variations and as an aid in altering commercial patterns. Design and construction of a dress. Prereq: Home Economics 215 or equivalent. Not open to students with credit in Home Economics 214. Cr. 2. \$64.
M. 1:15-4:05 p.m. Turobinski
217. **TAILORING.** Construction of a suit or coat. Prereq: Home Economics 213, or 215, or equivalent. Cr. 2. \$64.
S. 9:00 a.m.-12:00 m. Turobinski
240. **THE THEORY OF INTERIOR DESIGN.** Cr. 3. \$96.
M. W. F. 10:10-11:00 a.m. Interior Design Studios Ball
304. **NORMAL NUTRITION II.** Chemical composition, metabolism, and physiological functions of foodstuffs. Vitamins and dietaries. Prereq: Biology 155 and Chemistry 221. Cr. 3. \$96.
T. Th. 1:15-4:05 p.m. Vandervort
305. **NUTRITION IN DISEASE.** Prereq: Home Economics 304. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Fischer
306. **COMPARATIVE FOOD PREPARATION AND DEMONSTRATION METHODS.** Effect of such variables as materials, temperature and equipment. Recent food research. Prereq.: Home Economics 206. Cr. 3. \$96.
M. W. 1:15-4:05 p.m. Harvey
309. **CHILD DEVELOPMENT AND HEALTH.** Development and care of the child from prenatal to adult life. The child's constitution, maturation and biological needs. The child's physical development in the family environment. Cr. 3. \$96.
a. T. Th. 12:50-2:05 p.m. Hunscher
b. T. Th. 6:30-7:45 p.m. Hunscher
313. **MANAGEMENT OF INSTITUTIONAL FOOD SERVICE.** Legal aspects, food laws and health codes. Records for cost control. Field trips. Prereq.: Home Economics 312. Cr. 3. \$96.
F. 1:15-2:05 p.m. plus
3-hour Lab as arranged. Vandervort
320. **TEXTILES.** Study of fibers, constructions, and finishes used in textile manufacture. Selection, use and care of fabrics. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. DeMello
324. **HOME MANAGEMENT AND FAMILY LIFE.** Time, material factors and personal qualities analyzed for the purpose of strengthening family values. Cr. 3. \$96.
T. Th. 8:00-9:15 a.m. DeMello

330. **EUTHENICS.** Marriage and family relationships. Cr. 3. \$96.
M. W. 2:20-3:35 p.m. Loeb
331. **FIELD WORK IN HOME ECONOMICS I.** Opportunities for observation and participation in welfare and public health agencies, interior design studios, department stores, and food administration departments are open to a limited number of senior students. Cr. 3. \$96.
As arranged Staff
332. **FIELD WORK IN HOME ECONOMICS II.** Cr. 3. \$96.
As arranged Staff
337. **WORKSHOP IN WEAVING.** Analysis of basic weaves, traditional and contemporary. Study of design, color and texture. Cr. 2. \$64.
a. Th. 1:15-4:05 p.m. Interior Design Studios Turobinski
b. M. 6:30-9:30 p.m. Interior Design Studios Turobinski
338. **WORKSHOP IN ADVANCED WEAVING.** Continued study of design in handweaving. Attention to special problems including those posed by contemporary interior architecture and design. Cr. 2. \$64.
a. Th. 1:15-4:05 p.m. Interior Design Studios Turobinski
b. M. 6:30-9:30 p.m. Interior Design Studios Turobinski
340. **COLOR AND LIGHTING IN INTERIOR DESIGN.** Problems as solved through scientific knowledge of color; study of light stimulus and aesthetic ordering of color responses. Cr. 3. \$96.
T. 12:50-2:05 p.m., 2:20-5:30 p.m. Interior Design Studios Ball
342. **MATERIALS OF DECORATIVE ART.** Study of decorative materials, i.e., textiles, woods, ceramics, in relation to their aesthetic use. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Interior Design Studios Ball
345. **HISTORICAL FURNISHINGS.** Historic decorative art. Cr. 3. \$96.
M. W. F. 9:05-9:55 a.m. Interior Design Studios Ball

HUMANITIES

304. **SEMINAR IN THE HUMANITIES.** Lectures, readings, individual reports and discussion of problems arising in the various arts, with a comparison of different points of view. Present trends and influences in relation to social, intellectual, and other forces Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Music House Annex Evans

ITALIAN

102. **ELEMENTARY ITALIAN II.** Fundamentals of Italian grammar. Development of the ability to read, write, speak and understand simple Italian. Prereq.: Italian 101 or equivalent. Cr. 3. \$96.
a. M. W. F. 2:20-3:10 p.m. Mather 243 Barricelli
b. M. W. 6:30-7:45 p.m. Institute of Music Barricelli
202. **INTERMEDIATE ITALIAN II.** Review and further study of grammar and idiomatic expressions, composition and conversation based upon representative types of Italian literature. Prereq.: Italian 201 or equivalent. Cr. 3. \$96.
a. M. W. F. 1:15-2:05 p.m. Mather 243 Barricelli
b. T. Th. 6:30-7:45 p.m. Mather 243 Barricelli
302. **SURVEY OF ITALIAN LITERATURE II.** Prose and verse from the earliest times to the modern period. Prereq.: Italian 201 and 202 or equivalent. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Baker 217 Barricelli

JOURNALISM

201. **WRITING THE NEWS II.** Writing of newspaper feature stories. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Clark 212 Rehor
300. **SPECIALIZED WRITING.** Long features for newspapers and magazines. Columns. Analysis of models, with writing assignments. Cr. 3. \$96.
T. Th. 9:30-10:45 a.m. Baker 6 Wrolstad
301. **HOUSE MAGAZINES. TRADE AND SOCIETY PUBLICATIONS.** Editing and publishing for morale and sales. Cr. 3. \$96.
T. Th. 8:00-9:15 p.m. Baker 16 Bostwick

LATIN

102. **ELEMENTARY LATIN II.** Essentials of grammar and reading of elementary prose. Prereq.: Latin 101 or equivalent. Cr. 3. \$96.
M. W. F. 8:00-8:50 a.m. Mather 241 Sullivan
202. **SECOND YEAR LATIN II.** Vergil, *Aeneid*. Prereq.: Latin 201 or equivalent. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. Mather 241 Bliss

306. **LITERARY TYPES II.** Selections from Cicero, Catullus, Livy and Horace.
Prereq.: Latin 305 or equivalent. Cr. 3. \$96.
T. Th. 12:50-2:05 p.m. Mather 201 Walker

314. **ROMAN DIDACTIC POETRY.** Lucretius' *De Rerum Natura*. Prereq.:
Latin 306 or equivalent. Cr. 3. \$96.
T. Th. 2:20-3:35 p.m. Mather 243 Bliss

MATHEMATICS

102. **INTRODUCTION TO MATHEMATICS.** Number systems, elementary
set theory, finite and transfinite cardinals, functions, probability and statistics. Emphasis
on ideas and concepts. Primarily for non-mathematical majors. Prereq.: One unit each
of algebra and geometry in high school or 2 units of algebra. Cr. 3. \$96.
M. W. F. 9:05-9:55 a.m. Mather 125

103. **ALGEBRA AND TRIGONOMETRY.** Review of factoring and quad-
ratic equations. Binomial theorem, determinants and topics from the theory of equa-
tions. Analytic trigonometry and complex numbers. Prereq.: 1 year of high school
algebra or Mathematics 102. Cr. 3. \$96.
a. M. W. F. 11:15 a.m.-12:05 p.m. Mather 225
b. T. Th. 9:30-10:45 a.m. Mather 131
c. T. Th. 6:30-7:45 p.m. Mather 131

109. **ANALYTIC GEOMETRY AND CALCULUS I.** Study of conic sections
and other algebraic curves, limits and continuity, differentiation, anti-derivatives.
Prereq.: 3 ½ years of high school mathematics including trigonometry. Cr. 3. \$96.
a. M. W. F. 9:05-9:55 a.m. Mather 25
b. M. W. F. 10:10-11:00 a.m. Mather 144
c. T. Th. 8:00-9:15 p.m. Mather 122

110. **CALCULUS II.** Differentiation of transcendental functions, techniques of
integration and applications. Prereq: Mathematics 109. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m. Mather 131
b. M. W. F. 8:00-8:50 a.m. Mather 125
c. M. W. F. 9:05-9:55 a.m. Baker 216
d. M. W. F. 9:05-9:55 a.m. Mather 131
e. M. W. F. 10:10-11:00 a.m. Baker 216
f. M. W. F. 1:15-2:05 p.m. Mather 122
g. M. W. F. 1:15-2:05 p.m. Mather 125
h. T. Th. 9:30-10:45 a.m. Mather 125
j. T. Th. 6:30-7:45 p.m. Baker 18
k. T. Th. 6:30-7:45 p.m. Baker 216

200. **ACCELERATED CALCULUS II.** Prereq: Mathematics 199. Cr. 3. \$96.
M. W. F. 11:15 a.m.-12:05 p.m. Mather 131

209. **CALCULUS III.** Further techniques of integration and applications, improper
integrals, partial differentiation. Prereq: Mathematics 110. Cr. 3. \$96.
a. M. W. F. 1:15-2:05 p.m. Mather 131
b. T. Th. 6:30-7:45 p.m. Mather 238

210. **CALCULUS IV.** Multiple integration, infinite series, an introduction to dif-
ferential equations. Prereq: Mathematics 209. Cr. 3. \$96.
a. M. W. F. 8:00-8:50 a.m. Mather 126
b. M. W. F. 11:15 a.m.-12:05 p.m. Mather 122
c. T. Th. 8:00-9:15 p.m. Mather 131

301. **MATHEMATICS IN THE ELEMENTARY SCHOOL.** Cr. 3. \$96.
a. T. Th. 5:00-6:15 p.m. Mather 125
b. T. Th. 5:00-6:15 p.m. Mather 131

302. **INTRODUCTION TO ADVANCED MATHEMATICS.** Prereq:
Mathematics 200 or 210, or concurrent registration in 200 or 210. Cr. 3. \$96.
M. W. F. 4:30-5:20 p.m. Mather 131

352. **TOPICS IN ADVANCED CALCULUS II.** Prereq.: Mathematics 351. Cr.
3. \$96.
M. W. F. 4:30-5:20 p.m. Mather 125

MEDICAL TECHNOLOGY

(Classes at the Institute of Pathology)

213. **TECHNICIAN TRAINING III.** Cr. 10. \$320.
As arranged.

MUSIC

001. **CLASS PIANO.** Introduction to the Keyboard. For non-music majors.
Required for majors in Elementary Education unless exempted by examination. Cr.
0. \$32.
a. F. 9:05-9:55 a.m. Music House 20 Heller
b. F. 10:10-11:00 a.m. Music House 20 Heller
c. T. 7:30-8:20 p.m. Music House 20 Heller

102. THEORY II. Intervals, scales, rhythmic drill, sight singing, ear training, keyboard work, and harmony through inversions of triads and seventh chords. Prereq: Music 101 or equivalent. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Music House 21	Kilinski
Practice Session, T. Th. 8:00-9:15 a.m.		Darling
	Music House 21	

142. BRASS INSTRUMENTS II. Development of knowledge and skills necessary for elementary performance. Techniques and materials for effective class teaching. Participation required in University performing group as advised. Prereq: Music 141. Cr. 1. \$32.

T. Th. 9:30-10:45 a.m.	Harkness Instrumental Room	Shetler
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144. STRING INSTRUMENTS II. Instruction on instruments of the string family. Techniques and materials for effective class teaching. Participation required in University performing group as advised. Prereq: Music 143. Cr. 1. \$32.

M. W. 10:10-11:00 a.m.	Harkness Instrumental Room	Kilinski
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146. WOODWIND INSTRUMENTS II. Instruction on instruments of the woodwind family. Techniques and materials for effective class teaching. Participation required in University performing group as advised. Prereq: Music 145. Cr. 1. \$32.

M. W. 1:15-2:05 p.m.	Harkness Instrumental Room	Shetler
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148. VOCAL CLASS METHODS II. Instruction in class methods of teaching voice. Prereq: Music 147. Cr. 1. \$32.

M. W. 11:15 a.m.-12:30 p.m.	Music House 21	Garnett
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204. THEORY IV. Intermediate and advanced harmony through modulation and chromatic chords. Correlative sight singing, ear training and keyboard work. Prereq: Music 203 or equivalent. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Music House 20	Gee
Practice Session, M. W. F. 8:00-8:50 a.m.		Darling
	Music House 21	

213-3. APPRECIATION I. INTRODUCTION TO MUSIC. Study of melody, harmony, rhythm and tone color. Chief musical forms and selected masterpieces. Prescribed reading and listening. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Harkness Chapel	Gee
b. M. W. F. 1:15-2:05 p.m.	Harkness Chapel	Kilinski
c. M. 3:25-4:15 p.m., T. Th. 2:20-3:10 p.m.	Harkness Chapel	Blodgett
d. T. Th. 9:30-10:45 a.m.	Harkness Chapel	Gee

213-2. APPRECIATION I. INTRODUCTION TO MUSIC. Cr. 2. \$64.
c. W. 8:00-9:45 p.m. Music House 10 Kilinski

214. APPRECIATION II. GREAT OPERAS. History of opera oratorio. Oratorios of Handel, Mendelssohn, Elgar, etc., and choral works of Bach. Prereq: Music 213. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Music House 10	Blodgett
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250. CONDUCTING AND SCHOOL MUSIC LITERATURE I. Principles of and practice in conducting choral and instrumental materials for use in junior and senior high schools. Observation of University choral and instrumental groups required. Cr. 2. \$64.

M. W. F. 11:15 a.m.-12:05 p.m.	Music House 10	Shetler
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308. COMPOSITION IN SMALL FORMS II. Theoretical and creative work. Dance and homophonic forms generally. Writing for various instruments. Vocal writing; the setting of various texts. Prereq: Music 307 or equivalent. Cr. 3. \$96.

M. Th. 1:30-2:30 p.m.	Institute of Music	Dick
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312. HARMONIC AND FORM ANALYSIS. Vocabulary and structural features of 18th and 19th century music. Prereq.: Music 204 or equivalent. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Music House 21	Gee
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322. HISTORY OF MUSIC II. Developments from early times to the present, especially great periods and composers. Reference to life and thought. Illustrated lectures; style analysis. Prescribed listening and reading. Cr. 3. \$96.

M. 3:25-4:15 p.m., T. Th. 2:20-3:10 p.m.		Evans
	Music House Annex	

355. MUSIC IN THE ELEMENTARY SCHOOL II. Materials and methods for kindergarten through sixth grade. Not open to music majors. Prereq: Music 255 or equivalent. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m.	Music House 10	Garnett
b. M. W. F. 1:15-2:05 p.m.	Music House 10	Garnett

356. MUSIC IN THE ELEMENTARY GRADES. Teaching and correlating music and rhythmic activities. Presentation of materials. Observation of music classes. For music majors only. Prereq: Music 204 or equivalent. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Music House 10	Garnett
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APPLIED MUSIC

Membership in the University Band, Choir, or Orchestra is available to part-time students. Contact the Department of Music for information.

333. **UNIVERSITY BAND.** With or without credit. Cr. 1. \$32.
F. 4:30-6:00 p.m., **W.** 7:30-9:30 p.m. Shetler
Harkness Instrumental Room
335. **UNIVERSITY CHOIR.** Membership by try-out. With or without credit.
Prereq: Consent of instructor. Cr. 1. \$32.
T. **W.** F. 4:15-5:15 p.m. Adelbert 27 Blodgett
339. **UNIVERSITY ORCHESTRA.** Open to advanced instrumentalists. With or without credit. Prereq: Consent of instructor. Cr. 1. \$32.
M. 7:30-9:30 p.m. Harkness Instrumental Room Kilinski

INDIVIDUAL INSTRUCTION IN APPLIED MUSIC

Vocal and instrumental subjects are taught by visiting instructors from the Cleveland Orchestra, and by faculty members of the University's Department of Music.

For information as to complete list of instructors and subjects, credit, fees, and practice facilities, see Western Reserve University Spring Session Roster of Courses, or confer with the Department of Music, 11039 Bellflower Road.

PHILOSOPHY

101. **INTRODUCTION TO PHILOSOPHY.** Basic problems of philosophy as found in politics, science, morality, religion, and art. Cr. 3. \$96.
a. M. **W.** F. 9:05-9:55 a.m. Mather 122 McLellan
b. T. Th. 9:30-10:45 a.m. Mather 122 Levi
c. T. Th. 12:50-2:05 p.m. Mather 122 Kadish
d. M. **W.** 6:30-7:45 p.m. Mather 122
201. **INTRODUCTION TO LOGIC.** Principles which determine whether or not conclusions follow necessarily from the evidence offered for them. Applications. Cr. 3. \$96.
a. M. **W.** F. 8:00-8:50 a.m. Mather 122 McLellan
b. M. **W.** F. 10:10-11:00 a.m. Mather 122 McLellan
302. **MODERN PHILOSOPHY.** Western philosophy from St. Thomas Aquinas to the present. Development of Continental rationalism and British empiricism. Current trends in Europe and U. S. Prereq: Philosophy 301 or consent of instructor. Cr. 3. \$96.
M. 3:25-4:15 p.m., T. Th. 2:30-3:10 p.m. Levi
Mather 238

305. **ETHICS.** Procedure for ascertaining decisions. Discussions of the meaning of obligations, the right and the good. Prereq: one previous course in Philosophy. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Mather 241 Levi

375. **AESTHETICS.** Nature of the beautiful and the criteria of good taste. Chief theories in the philosophy of art. Prereq: major in Humanities, or in the arts or literature; or one previous course in Philosophy. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Mather 222 Kadish

PHYSICAL EDUCATION

- 101, 102, 203, 204. **(Men) ACTIVITIES FOR FRESHMAN AND SOPHOMORE YEARS.** Cr. 0. Adelbert Gym. Swimming classes at Case Institute Pool. Staff.

- a. M. **W.** F. 9:05-9:55 a.m.
b. M. **W.** F. 10:10-11:00 a.m.
c. M. **W.** F. 11:15 a.m.-12:05 p.m.
d. M. **W.** 2:20-3:35 p.m.
e. T. Th. 9:30-10:45 a.m.
f. T. Th. 2:20-3:35 p.m.
g. T. Th. 2:20-3:35 p.m. Fencing only.
h. M. 2:20-4:00 p.m. Beginning and Intermediate Swimming.
Prereq: Physical Education 101.
j. T. 2:20-4:00 p.m. Beginning and Intermediate Swimming.
Prereq: Physical Education 101.
k. Th. 2:20-4:00 p.m. Life Saving.
Prereq: Physical Education 101, and ability.
m. F. 1:15-4:00 p.m. Water Safety Instructor's Course.
Prereq: Red Cross Senior Life Saving Certificate and Physical Education 101.
n. F. 1:15-2:55 p.m. Judo only

- 101, 102, 203, 204. **(Women) ACTIVITIES FOR FRESHMAN AND SOPHOMORE YEARS.** Cr. 0.

As arranged Mather gym Staff

- 205, 206. **(Men) ADVANCED ACTIVITIES FOR JUNIOR AND SENIOR YEARS.** For Physical Education majors. Cr. 1, 1, \$32, \$32.

As arranged Adelbert Gym Grueninger

- 205, 206. **(Women) ADVANCED ACTIVITIES FOR JUNIOR AND SENIOR YEARS.** For Physical Education majors. Cr. 1, 1, \$32, \$32.

As arranged Mather Gym Staff

222. **PLAY AND PLAYGROUND.** Organization of the program and management of play centers. Cr. 2. \$64.

M. W. F. 10:10-11:00 a.m. Karl Davis Lewis

231. **(Men) METHODS OF COACHING BASKETBALL.** Cr. 2. \$64.

M. W. 2:20-3:35 p.m. Karl Davis Spechalske

303. **TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL.** Selection, presentation, and participation in the plays, games, stunts, free play, self-testing, and rhythmic activities of the different grade levels. Cr. 3. \$96.

M. W. 2:20-3:35 p.m. Mather Gym Karipides

309. **CHILD DEVELOPMENT AND HEALTH.** See Home Economics 309.

312. **(Women) HISTORY AND PRINCIPLES OF SPORTS II.** Methods of teaching and officiating in team games and individual sports. Analysis of skills, technique, history, rules, and teaching progression. Cr. 3. \$96.

T. 2:20-4:10 p.m. plus Mather Gym Russell
2 laboratory hours as arranged

319. **(Women) METHODS OF TEACHING PHYSICAL EDUCATION.** Theory and practice in teaching and officiating in team games, individual sports and development activities. Cr. 2. \$64.

As arranged Mather Gym Staff

320. **INTRODUCTION TO COMMUNITY RECREATION.** Recreation programs under school and community leadership; legal provisions, policies, community resources, facilities, and personnel. Cr. 2. \$64.

T. Th. 12:50-2:05 p.m. Karl Davis Riordan

321. **(Women) ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION.** Plans and procedures for the conduct of physical and health education. Cr. 2. \$64.

Th. 12:50-2:30 p.m. Mather Gym Smith

336. **THE TEACHING OF HEALTH.** Teaching by direct and indirect methods; the development of teaching units and consideration of sources of material for the teacher. Cr. 3. \$96.

M. F. 11:15 a.m.-12:05 p.m. Karl Davis Finnigan

346. **(Men) SUPERVISED TEACHING OF PHYSICAL EDUCATION.** Modern methods of teaching. Teaching of individual and mass athletics. Cr. 2. \$64.

M. 1:15-2:05 p.m. Karl Davis Grueninger
plus 3 laboratory hours as arranged

353. **(Men) ADVANCED METHODS IN FOOTBALL COACHING.** Prereq: Junior, Senior or Graduate standing, or one year of coaching football. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Karl Davis Finnigan

455. **PROBLEMS, METHODS, AND MATERIALS IN TEACHING HEALTH EDUCATION.** Cr. 3. \$96.

W. 7:30-9:30 p.m. Lakewood Falther

PHYSICS

(Classes at the Laboratory of Physics)

104. **INTRODUCTORY PHYSICS II.** Physical principles and their applications, with particular emphasis on atomic and nuclear physics. Prereq: Physics 103. Cr. 4. \$128.

a. M. W. F. 9:05-9:55 a.m. plus lab. Room 310 Weinberg
b. T. Th. 6:30-7:45 p.m. plus lab. Room 310 Casper

Laboratory: 1. M. 1:15-4:15 p.m., or
2. T. 1:15-4:15 p.m., or
3. W. 1:15-4:15 p.m., or
4. Th. 1:15-4:15 p.m., or
5. F. 1:15-4:15 p.m., or
6. Th. 8:00-11:00 p.m.

204. **INTERMEDIATE PHYSICS II.** Mechanics, wave motion, sound, heat, thermodynamics, light, electricity and magnetism, using calculus. Prereq.: Physics 203. Cr. 4. \$128.

a. M. W. F. 8:00-8:50 a.m. plus lab. Room 209 White, Robinson
(Architecture students only)

b. M. W. F. 8:00-8:50 a.m. plus lab. Rooms 201, 310 Zilsel, Robinson

Laboratory: 1. M. 1:15-4:15 p.m., or
2. T. 1:15-4:15 p.m., or
3. W. 1:15-4:15 p.m., or
4. Th. 1:15-4:15 p.m., or
5. F. 1:15-4:15 p.m.

322. **CLASSICAL MECHANICS II.** Mechanics, wave motion, sound, heat, thermodynamics, light, electricity and magnetism, using calculus. Prereq.: Physics 321. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Room 209 Kisslinger

346. THERMODYNAMICS AND STATISTICAL MECHANICS. First and second laws of thermodynamics; their functions and statistical interpretation; classical and quantum distribution laws with applications; kinetic theory of gases. Prereq: Physics 204. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Room 209 Zilsel, Weinberg

352. ELECTROMAGNETISM II. Electrostatics, electrodynamics, electromagnetism, direct and alternating currents, electrical measurements, circuit theory. Maxwell's equations and electromagnetic radiation, using vector analysis. Prereq: Physics 351. Cr. 4. \$128.

M. W. F. 10:10-11:00 a.m.,
T. Th. 1:15-4:15 p.m. Rooms 207, 110 McGervey

362. ATOMIC, NUCLEAR AND SOLID STATE PHYSICS II. Black body radiation, special relativity, atomic structure and spectra, X-rays, crystal, molecular and nuclear structure, quantum properties of solids, radioactivity, nuclear forces, fission, fusion and cosmic rays. Prereq: Physics 361. Cr. 4. \$128.

M. W. F. 11:15 a.m.-12:05 p.m.,
M. 1:15-4:15 p.m. Room 201 Robinson

398. HONORS THESIS. Theoretical or experimental research. Limited to qualified seniors, who will be considered for departmental honors upon completion of a thesis. Prereq: permission of instructor. Cr. 3. \$96.

As arranged Tauber

POLITICAL SCIENCE

101. AMERICAN NATIONAL GOVERNMENT. An examination of the constitution, federalism, political parties and pressure groups, congress, presidency, judiciary, and civil liberties. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Baker 215 Isakoff

102. PRINCIPLES OF POLITICAL SCIENCE. Politics, nationally and internationally, utilizing comparative, historical and analytical approaches. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m. Baker 221 Secher
b. M. W. F. 10:10-11:00 a.m. Baker 215 Rackow
c. M. W. F. 1:15-2:05 p.m. Baker 215 Stone
d. T. Th. 8:00-9:15 a.m. Baker 4 Hotz
e. T. Th. 9:30-10:45 a.m. Baker 18 Rackow
f. T. Th. 6:30-7:45 p.m. Baker 210 Secher
g. M. W. 8:00-9:15 p.m. Lakewood Levine

204. STATE GOVERNMENT. Role of states in American federal union; constitutional arrangements, organization, powers, and functioning; basic state local relationships. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Baker 217 Isakoff

302. CONTEMPORARY DIPLOMATIC PROBLEMS. Examination of the present bi-polar world within the framework of conflicting ideologies, power drives and national interests. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Baker 221 Hotz

310. AMERICAN LEGISLATURES. Examination of the legislative process in national and state legislatures and the relationship of the legislative branch to other branches of government. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Baker 214 Isakoff

314. POLITICAL PARTIES AND ELECTIONS. Role of political parties, American and foreign, in the contest for control of government; the character and behavior of voters. Cr. 3. \$96.

M. W. F. 2:20-3:10 p.m. Baker 214 Stone

321. INTERNATIONAL LAW. Law as reflected in ethical, sociological, and pragmatic conditions; problems of recognition, jurisdiction, and diplomatic immunities; limitations of laws of war and peace under a decentralized power system. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Baker 4 Hotz

326. AMERICAN CONSTITUTIONAL LAW. Court cases covering speech, press, religion; self-incrimination; double jeopardy, jury trial; segregation, suffrage, citizenship; due process, property rights, contracts; limitations on governmental power. May be taken independently of 325. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Baker 214 Rackow

332. MODERN POLITICAL THOUGHT. Philosophic and scientific foundations from Spinoza to Lasswell. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m. Baker 208 Secher

368. GOVERNMENT AND POLITICS OF CENTRAL AND EASTERN EUROPE. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Baker 206 Secher

PSYCHOLOGY

(Psychology 101 is a prerequisite to all other Psychology Courses)

101. GENERAL PSYCHOLOGY. Scientific study of behavior. Heredity and environment; the process of perception, learning, motivation, emotion and thinking; personal and social adjustment. Cr. 3. \$96.

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| a. M. W. F. 10:10-11:00 a.m. | Adelbert 27 | Bruell |
| b. T. Th. 8:00-9:15 a.m. | Adelbert 27 | Mawardi |
| c. T. Th. 9:30-10:45 a.m. | Adelbert 27 | Otis |
| d. M. W. 6:30-7:45 p.m. | Baker 205 | Alexander |
| e. T. Th. 6:30-7:45 p.m. | Mather 24 | Prien |

213. PSYCHOLOGY OF PERSONALITY. Theories of personality, and methods for assessing the person. Problems of personal adjustment. Cr. 3. \$96.

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| a. M. W. F. 8:00-8:50 a.m. | Mather 25 | McConihe |
| b. T. Th. 9:30-10:45 a.m. | Mather 25 | Miles |
| c. T. Th. 8:00-9:15 p.m. | Mather 25 | Fink |

215. SOCIAL PSYCHOLOGY. Social, cultural influences and pressures. Dynamics of small groups, leadership, causes of minority and other social problems. Cr. 3. \$96.

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| a. T. Th. 8:00-9:15 a.m. | Mather 226 | Caron |
| b. M. W. 6:30-7:45 p.m. | Mather 125 | Alvarez |

219. ELEMENTARY STATISTICS. See STATISTICS 219.

230. PSYCHOLOGY OF CHILDHOOD AND ADOLESCENCE. Basic facts and principles of psychological development from prenatal period through adolescence. Cr. 3. \$96.

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| a. M. W. F. 10:10-11:00 a.m. | Mather 24 | Norcross |
| b. M. W. 6:30-7:45 p.m. | Mather 25 | Norcross |

304. EDUCATIONAL PSYCHOLOGY. See EDUCATION 304.

321. ABNORMAL PSYCHOLOGY. Major neurotic and psychotic patterns of personality adjustment and their principal symptoms, dynamics, etiology, and treatment. Cr. 3. \$96.

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| a. M. W. F. 8:00-8:50 a.m. | Mather 223 | M. Weiss |
| b. T. Th. 12:50-2:05 p.m. | Mather 25 | Miles |
| c. M. W. 6:30-7:45 p.m. | Lakewood | Ishiyama |

332. CHILD MANAGEMENT II. Introduction to the behavior of school age children and adolescents and to the management of ordinary and special problems in these age groups. Cr. 2. \$64.

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| M. 4:00-5:45 p.m. | Baker 205 | Spock, Kessler |
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334. ADVANCED PRACTICUM IN CHILD MANAGEMENT. Supervised work in a residential center for emotionally disturbed children. Prereq.: Consent of instructor, and concurrent registration in Psychology 332. Limited to 20 students. Cr. 3. \$96.

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| As arranged | | Spock |
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351. COMPARATIVE PSYCHOLOGY. Facts and principles of behavior, with emphasis upon learning, motivation, emotion and temperament. Cr. 3. \$96.

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| a. M. W. F. 9:05-9:55 a.m. | Psychology 17 | Bruell |
| b. T. Th. 6:30-7:45 p.m. | Mather 25 | Carlson |

352. PHYSIOLOGICAL PSYCHOLOGY. The nervous system, endocrine glands, the receptor and effector mechanisms as they influence behavior and personality. Cr. 3. \$96.

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| a. M. W. F. 1:15-2:05 p.m. | Psychology 17 | Wilcott |
| b. M. W. 6:30-7:45 p.m. | Lakewood | Fox |

359. INDUSTRIAL PSYCHOLOGY. The findings of job attitude studies, principles of supervision, and problems of personal adjustment of people to jobs. Cr. 3. \$96.

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| M. W. F. 11:15 a.m.-12:05 p.m. | Mather 222 | Liske |
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390. SEMINAR: PSYCHOLOGY OF REHABILITATION. Readings in psychological literature and preparation of papers required. For students majoring or minoring in psychology. Cr. 3. \$96.

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| M. W. F. 2:20-3:10 p.m. | Psychology 17 | Alexander |
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READING IMPROVEMENT SERVICE

001. READING IMPROVEMENT. Cr. 0. \$48.

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| T. 8:00-9:45 p.m. | Hitchcock 306 | Shanberg |
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002. READING IMPROVEMENT. Prereq.: Successful completion of Reading Improvement 001, or evidence of advanced skill given on pre-test before registration. Cr. 0. \$48.

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| Th. 6:00-7:45 p.m. | Hitchcock 306 | |
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003. READING LABORATORY. Cr. 0. \$64.

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| As arranged | Hitchcock 306 | McConihe |
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RELIGION

201. **THE ENGLISH BIBLE: THE OLD TESTAMENT.** Introduction to the understanding and appreciation of the Old Testament as a classic of religion, history and literature. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Mather 226 Wolfe

202. **THE ENGLISH BIBLE: THE NEW TESTAMENT.** Introduction to the understanding and appreciation of the New Testament as a classic of religion, history and literature. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m. Mather 226 Wolfe
b. T. Th. 9:30-10:45 a.m. Physics 310 Rigg

216. **THE RELIGIONS OF THE MODERN WORLD.** Contemporary religions and cults in the Cleveland area, weekly visitation of significant religious services. Cr. 3. \$96.

Th. 8:00-9:15 a.m., plus weekly visitations Mather 225 Wolfe

304. **AN INTRODUCTION TO THE HISTORY OF RELIGION II.** Origins and growth of the religions of primitive men; study of classical periods of major historical religions such as Buddhism, Judaism, Christianity and Islam. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Biology 303 Rigg

RUSSIAN

102. **ELEMENTARY RUSSIAN II.** Introduction to the basic structure of Russian with special emphasis on oral mastery of the language through automatic speech patterns Prereq.: Russian 101 or equivalent. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m. Mather 24 Horn
b. M. W. F. 9:05-9:55 a.m. Mather 222 Rusiniak
c. M. W. 6:30-7:45 p.m. Mather 226 Poliakov
d. M. W. 6:30-7:45 p.m. Baker 16 Rus

202. **SECOND YEAR RUSSIAN II.** Grammar review, conversational practice, and composition based on readings from Russian authors. Scientific texts for those majoring in science. Prereq.: Russian 201 or equivalent. Cr. 3. \$96.

a. M. W. F. 1:15-2:05 p.m. Mather 25 Horn
b. M. W. 8:00-9:15 p.m. Mather 226 Poliakov

301. **INTRODUCTION TO RUSSIAN CLASSICAL LITERATURE.** Survey from earliest times through the 18th century. Emphasis in 19th century on selected authors. Prereq.: Russian 202. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Baker 216 Horn

304. **DEVELOPMENT OF FLUENCY IN SPOKEN RUSSIAN.** Prereq.: Russian 302. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m. Mather 238 Horn

325. **METHODS OF TEACHING A FOREIGN LANGUAGE.** Analysis of language as a system of cultural communication. Conducted in English. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m. Mather 241 Kupersmith

SOCIOLOGY

101. **ELEMENTARY ANTHROPOLOGY.** Peoples, their achievements, physical culture. Origin of man; prehistoric and existing races and cultures. Beginnings of trade and invention. Modes of life. Cr. 3. \$96.

T. Th. 8:00-9:15 p.m. Mather 122 Lawrence

112. **PRINCIPLES OF SOCIOLOGY.** Science of society. Groups and classes, social psychology, laws of population; marriage, family, church, state; folkways and mores. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m. Mather 123 Rautenstrauch
b. M. W. F. 1:15-2:05 p.m. Mather 123 Busch
c. T. Th. 9:30-10:45 a.m. Mather 223 Lawrence
d. T. Th. 12:50-2:05 p.m. Mather 223 Schermerhorn
e. M. W. 6:30-7:45 p.m. Mather 131 Crain

202. **CRIME AND DELINQUENCY.** Nature, causes and extent of crime. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m. Mather 231 Schermerhorn
plus Monday or Wednesday afternoon field trips.

205. **THE AMERICAN NEGRO.** Economic, religious, educational, political problems; prejudice, crime and delinquency; trends and proposed solutions. Cr. 3. \$96.

T. Th. 8:00-9:15 p.m. Mather 125 Puckett

207. **RACIAL AND CULTURAL MINORITIES.** Social process of their assimilation into the culture of this country. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Mather 123 Rautenstrauch
b. M. W. 6:30-7:45 p.m. Lakewood Vande Visse

210. PUBLIC OPINION. Place of newspapers, T.V., radio, screen, stage, school, interest groups; opinion control in dictatorships, democracies and during war time. Cr. 3. \$96.

M. W. F. 2:20-3:10 p.m. Mather 123 Busch

212. AMERICAN SOCIETY. Essential features of American social heritage; contributions of folk groups; sociological significance of local color. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Mather 243 Puckett

219. ELEMENTARY STATISTICS. See STATISTICS 219.

301. CULTURAL ANTHROPOLOGY. Human relations among primitive peoples. Functional and diffusionist theories. Prereq.: Sociology 101 or 112. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m. Mather 125 Lawrence

307. MODERN SOCIAL MOVEMENTS. Causes, types and processes of social unrest. Nationalism, agrarianism, labor and cooperative movements. Cr. 3. \$96.

M. W. 6:30-7:45 p.m. Mather 231 Busch

308. MARRIAGE AND THE FAMILY. Varying marriage and family customs. Present day marriage and family in this country; status of women; modern problems of the family. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Mather 231 Busch

b. M. W. 8:00-9:15 p.m. Lakewood Vande Visse

310. HUMAN NATURE AND THE SOCIAL ORDER. Personality formation in terms of interrelations between constitutional and group membership determinants; development of roles and situational factors in the growth of human nature. Prereq.: Psychology 101 and Sociology 112. Cr. 3. \$96.

T. Th. 8:00-9:15 p.m. Mather 231 Schermerhorn

311. SOCIAL CONTROL. Leadership; emblems, rituals, ceremonies; family, school, church, etc., control. Role of communication agencies. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Mather 238 Lawrence

320. SOCIOLOGY OF OCCUPATION. Selected occupations as social systems and their relationship to the economic and social structure of society. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Mather 123 Sussman

SPANISH

102. ELEMENTARY SPANISH II. Fundamentals of Spanish grammar. Development of the ability to read, write, speak and understand simple Spanish. Prereq.: Spanish 101 or 1 year of high school Spanish. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Mather 25 Piccinin

b. M. W. F. 1:15-2:05 p.m. Mather 136 Piccinin

c. T. Th. 9:30-10:45 a.m. Mather 225 Falconieri

d. M. W. 8:00-9:15 p.m. Mather 238 Pieri

201. INTERMEDIATE SPANISH I. Review and further study of grammar and idiomatic expressions; composition and conversation based upon Spanish literature. Prereq.: Spanish 102 or 2 years of high school Spanish. Cr. 3. \$96.

M. W. F. 11:15 a.m.-12:05 p.m. Mather 231 Nackes

202. INTERMEDIATE SPANISH II. Review and further study of grammar and idiomatic expressions; composition and conversation based upon Spanish literature. Prereq.: Spanish 201 or 3 years of high school Spanish. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Mather 238 Viudez

b. M. W. F. 1:15-2:05 p.m. Mather 238 Sarmiento

c. T. Th. 9:30-10:45 a.m. Mather 238 Viudez

d. T. Th. 12:50-2:05 p.m. Baker 14 Nackes

e. M. W. 6:30-7:45 p.m. Mather 238 Pieri

212. INTRODUCTION TO SPANISH LITERATURE II. Landmarks with stress on the golden age and the 19th and 20th centuries. Those not preparing to teach may do all their collateral reading in the modern period. Prereq.: Spanish 211 or 4 years of high school Spanish. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Baker 214 Viudez

302. ADVANCED COMPOSITION. Prereq.: Spanish 301 or permission of the chairman. Cr. 3. \$96.

a. M. W. F. 2:20-3:10 p.m. Mather 238 Sarmiento

b. M. W. 6:30-7:45 p.m. Mather 243 Viudez

325. METHODS OF TEACHING A FOREIGN LANGUAGE. Analysis of language as a system of cultural communication. History of methodology with emphasis on aural-oral techniques for various levels including the *Cleveland Plan*. Conducted in English. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m. Mather 241 Kupersmith

352. LITERATURE OF THE 19TH CENTURY II. Realism—essay and prose fiction. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Mather 126 Sarmiento

362. LITERATURE OF THE 20TH CENTURY II. Novel, drama, essay and poetry. Readings and reports. Cr. 3. \$96.

T. Th. 4:30-5:45 p.m. Mather 243 Falconieri

SPEECH

103. PUBLIC SPEAKING. Principles essential to the effective expression of ideas in everyday personal relationships as well as before audiences. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Mather 136	Kuhl
b. M. W. F. 10:10-11:00 a.m.	Mather 222	Ford
c. M. W. F. 11:15 a.m.-12:05 p.m.	Mather 301	Henderlinder
d. M. W. F. 1:15-2:05 p.m.	Mather 301	Henderlinder
e. T. Th. 8:00-9:15 a.m.	Mather 301	Jaeger
f. T. Th. 9:30-10:45 a.m.	Mather 301	Stewart
g. T. Th. 12:50-2:05 p.m.	Baker 16	Jaeger
h. M. W. 6:30-7:45 p.m.	Baker 14	Ford
j. M. W. 8:00-9:15 p.m.	Baker 18	Haiman

107. VOICE AND DICTION. The scientific basis of speech and voice production. Effective habits in the use of voice. Group and individual exercise. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Mather 225	Stewart
b. M. W. F. 10:10-11:00 a.m.	Mather 136	Kuhl
c. M. W. F. 11:15 a.m.-12:05 p.m.	Mather 136	Kuhl
d. T. Th. 12:50-2:05 p.m.	Mather 226	Stewart
e. M. W. 6:30-7:45 p.m.	Baker 4	Berg

202. GROUP DISCUSSION. Group thinking designed to develop skill in the orderly, agreeable, open-minded exchange of ideas. Group experience and practice in the leadership of a discussion group. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m.	Mather 301	Henderlinder
b. M. W. 6:30-7:45 p.m.	Baker 18	Haiman

204. PERSUASION. Influencing individuals and audiences by means of written and spoken appeals; psychological principles important in controlling belief and behavior. Lectures, collateral reading, and class speeches. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m.	Mather 301	Guthrie
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208. ORAL INTERPRETATION OF LITERATURE. Methods and techniques of expression. Study of student recordings and recorded models. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Mather 44	Stewart
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312. ARGUMENTATION II. Principles involved in the orderly, logical solution of problems. Laws of reasoning and specimens of common errors in reasoning process. Causes, effects and remedies of prejudice. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Mather 301	Henderlinder
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316. PHONETICS. Characteristics of the sounds of American English; the International Phonetic Alphabet. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Dauby House	Engel
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321. ADVANCED SPEECH CORRECTION. More complex speech problems and study of therapeutic techniques; observation of therapy. Prereq.: Speech 308. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Dauby House	Gilmore
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324. PSYCHOLOGY OF SPEECH. Psychological factors in speech problems including stuttering. Prereq.: Speech 308. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Dauby House	Engel
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341. CONTEMPORARY PUBLIC ADDRESS. Techniques and skills of speakers; emphasis on audience analysis and forms of persuasion and support. Cr. 3. \$96.

T. Th. S. 9:00-9:30 a.m.	WEWS	Guthrie
Beginning February 7 (by Television and Home Study)		
Station WEWS, Channel 5.		

352. PUBLIC DISCUSSION AND DEBATE II. Only for advanced students in the group from which are selected the speakers for the public "Forum" debates and discussions and the members of the intercollegiate debate teams. Cr. 3. \$96.

F. 3:30-5:30 p.m. plus practice	Mather 301	Kuhl
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367. LIPREADING AND AUDITORY TRAINING. Methods of teaching those with hearing impairments to integrate visual and auditory cues in the comprehension of spoken language. Required observation. Cr. 3. \$96.

T. Th. 2:30-3:45 p.m.	Hearing & Speech Center	Staff
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380. ORGANIZATION AND MANAGEMENT OF A PRE-SCHOOL PROGRAM FOR CHILDREN WITH HEARING IMPAIRMENTS. Cr. 3. \$96.

M. W. F. 8:00-8:50 a.m.	Dauby House	Bender
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LIBRARY SCIENCE

(Consent of instructor is prerequisite to Library Science Courses)

503. THE LIBRARY IN THE COMMUNITY. Place of the library as active factor in community life. Demonstrations of Great Books round tables, film forums. Cr. 2. \$64.

T. 4:00-5:50 p.m.	Freiberger 312	Warncke
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512. SPECIAL LIBRARIES. Scope and development of the special library field with emphasis on business information services. Cr. 2. \$64.

Th. 7:00-8:50 p.m.

Freiberger 312

Vormelker

520. MUSIC LIBRARIES. Preparation to meet demands in music libraries which differ in size, scope and specialization. Cr. 2. \$64.

W. 4:30-6:30 p.m.

Freiberger 313

Posell

522. INFORMATION SOURCES AND SERVICES. Bibliographic tools and other reference literature of various subject fields. Prereq: Library Science 521. Cr. 3. \$96.

b. W. 7:00-8:50 p.m.

Freiberger 313

Mandel

550. CHILDREN'S LITERATURE. Emphasis upon modern trends in book publishing for children. Cr. 2. \$64.

W. 7:30-9:30 p.m.

Freiberger 312

Gross

572. MACHINE LITERATURE SEARCHING: APPLICATIONS. Review of recently developed methods and equipment for analyzing, storing, correlating and retrieving recorded information. Cr. 2. \$64.

M. 7:30-9:20 p.m.

Freiberger 312

Kent

575. INFORMATION PROCESSING ON COMPUTERS. Historical review of computer developments, functions performed and organization of computers. Principles of programming, systems organization, and symbol manipulation with emphasis on application of high speed computers. Cr. 2. \$64.

T. 4:00-5:50 p.m.

Freiberger 313

Belzer

578. SPECIALIZED INFORMATION CENTER. Activity in the United States and abroad, with emphasis placed on centers employing mechanical or electronic aids. Mechanization activities of the Center for Documentation and Communication Research discussed in detail. Cr. 2. \$64.

M. 4:30-6:20 p.m.

Freiberger 313

Kent

592. INTRODUCTION TO MEDICAL LIBRARIANSHIP. Cr. 2. \$64.

T. 7:30-9:20 p.m.

Freiberger 312

Kronick

BUSINESS ADMINISTRATION

An asterisk (*) before the course number indicates courses giving credit toward the degree of Master of Business Administration. Graduate credit will be granted only to students who have been admitted to the Graduate Division of the School of Business.

ACCOUNTING

103. INTRODUCTORY ACCOUNTING I. Business organizations; sources of business assets and their uses; analyzing, classifying and recording transactions, adjusting and closing books; financial statements. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Baker 217

b. T. Th. 12:50-2:05 p.m. Baker 212

c. M. W. 8:00-9:15 p.m. Baker 216

d. T. Th. 6:30-7:45 p.m. Baker 212

e. M. W. 6:30-7:45 p.m. Lakewood

Kopy
Dickerson
Tucker
Alpern
Box

104. INTRODUCTORY ACCOUNTING II. A continuation of Accounting 103 which is a prerequisite. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m. Baker 215

b. T. Th. 9:30-10:45 a.m. Baker 8

c. M. W. 6:30-7:45 p.m. Baker 216

d. T. Th. 6:30-7:45 p.m. Baker 14

e. M. W. 8:00-9:15 p.m. Lakewood

Kopy
Braden
Tucker
Guidos
Hyde

203. INTERMEDIATE ACCOUNTING I. Evaluation and presentation of items which appear on balance sheets. Prereq: Accounting 104. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m. Baker 14

b. T. Th. 6:30-7:45 p.m. Baker 217

Clinkenbeard
Clinkenbeard

204. INTERMEDIATE ACCOUNTING II. Analysis and interpretation of accounting statements and reports for management purposes. Prereq: Accounting 203. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Baker 14

b. T. Th. 8:00-9:15 p.m. Baker 212

c. M. W. 6:30-7:45 p.m. Lakewood

Clinkenbeard
Alpern
Hyde

***304. ADVANCED ACCOUNTING II.** Partnerships, insurance, insolvencies, foreign exchange, estates and trusts, budgets; branch accounting, and consolidations. Prereq: Accounting 303. Cr. 3. \$96.

T. Th. 8:00-9:15 p.m. Baker 217

Clinkenbeard

***305. FEDERAL TAXES.** Income tax laws and their application; preparation of tax returns. Prereq: Accounting 204. Cr. 3. \$96.

M. W. 8:00-9:15 p.m. Baker 221

Braden

***306. ADVANCED FEDERAL AND STATE TAXES.** Federal corporate income taxes and Ohio taxes on corporations. Preparation of returns. Prereq: Accounting 305. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m. Baker 214

Knittel

309. INTRODUCTORY COST ACCOUNTING. Material, labor, and overhead costs of processes, operations, and units of product; inventory records; controlling accounts; factory ledgers; cost statements and reports. Prereq: Accounting 104. Cr. 3. \$96.

M. W. 6:30-7:45 p.m. Baker 210 Kuten

314. FUNDAMENTALS OF AUDITING. Verification of financial statements, transactions, and accounting procedures. Professional ethics. Internal control and internal audit. Prereq.: Accounting 204 and 309. Cr. 3. \$96.

T. Th. 12:50-2:05 p.m. Baker 8 Braden

380. ELECTRONIC DATA PROCESSING. See INDUSTRY 380.

BANKING AND FINANCE

310. CREDITS AND COLLECTIONS. See M. and M. 310.

339. PERSONAL FINANCE. Individual problems in expenditure, budgeting, borrowing, saving, home financing, annuities, wills, trusts, taxes, and buying on credit. Prereq: Economics 201. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m. Baker 220 Dawson

341. MONEY AND BANKING. Money and banking system of the U. S. including the nature and functions of money. Prereq: Economics 201. Cr. 3. \$96.

a. M. W. F. 11:15 a.m.-12:05 p.m. Baker 220 Welfling
b. T. Th. 6:30-7:45 p.m. Baker 220 Welfling

355. CORPORATION FINANCE. Corporate financing, methods of securing and managing capital; distribution of net income. Prereq: Accounting 104. Cr. 3. \$96.

a. M. W. F. 10:10-11:00 a.m. Baker 220 Dawson
b. M. W. 8:00-9:15 p.m. Lakewood McCarter

***356. INVESTMENTS.** Financial problems of individuals in purchasing stocks and bonds. Attention to current problems. Prereq.: Banking and Finance 355. Cr. 3. \$96.

M. W. 6:30-7:45 p.m. Baker 220 Dawson

359. INSURANCE. Principles and practices of insurance corporations in the U. S. Open to Juniors and Seniors. Cr. 3. \$96.

T. Th. 8:00-9:15 a.m. Baker 222 Lewis

BUSINESS LAW

329. BUSINESS LAW I. Legal problems most frequently met in business. Laws of contracts, agency, bailments, sales and negotiable instruments. Cr. 3. \$96.

a. T. Th. 8:00-9:15 a.m. Baker 219 Weidner
b. M. W. 6:30-7:45 p.m. Baker 12 DeVinne

330. BUSINESS LAW II. Continuation of Business Law 329. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m. Baker 12 DeVinne
b. T. Th. 8:00-9:15 p.m. Baker 18 Weidner
c. M. W. 6:30-7:45 p.m. Lakewood Pappas

ECONOMICS

201. ECONOMIC PRINCIPLES AND PROBLEMS I. National income; markets and business organization; labor; money, credit, banking, business fluctuations. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m. Baker 217 Kopy
b. T. Th. 8:00-9:15 a.m. Baker 221 Kopy
c. M. W. 8:00-9:15 p.m. Baker 206 Jerrow

202. ECONOMIC PRINCIPLES AND PROBLEMS II. A continuation of Economics 201 which is a prerequisite. Cr. 3. \$96.

a. M. W. F. 9:05-9:55 a.m. Baker 205 Barloon
b. T. Th. 9:30-10:45 a.m. Baker 202 McMillan
c. M. W. 8:00-9:15 p.m. Baker 214 Crosby
d. M. W. 8:00-9:15 p.m. Lakewood Hazlett

***312. ECONOMIC GEOGRAPHY.** See GEOGRAPHY 312.

***315. ECONOMICS OF PUBLIC UTILITIES.** Emphasis on evolving function of public utilities in the economy and problems of regulation. Prereq: Economics 202. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m. Baker 204 Barloon

***316. TRANSPORTATION.** See Marketing and Merchandising 316.

***331. LABOR PROBLEMS.** Collective bargaining; management and labor. Prereq: Junior, senior or graduate standing. Cr. 3. \$96.

T. Th. 8:00-9:15 a.m. Baker 14 Young

- *345. **HISTORY OF ECONOMIC THOUGHT.** Emphasis on Smith, Malthus, Ricardo, Mill, Marx, Marshall, and Veblen. Prereq: Economics 202. Cr. 3. \$96.
 a. M. W. F. 10:10-11:00 a.m. Baker 222 Chang
 b. M. W. 6:30-7:45 p.m. Baker 222 Chang

359. **INSURANCE.** See **BANKING** and **FINANCE** 359.

*382. **ECONOMIC HISTORY OF THE UNITED STATES II.** See **HISTORY** 382.

*391. **MANAGEMENT ECONOMICS.** See **INDUSTRY** 391.

INDUSTRY

249. **PRINCIPLES OF INDUSTRIAL MANAGEMENT.** Elements of organization planning, directing, implementing, and control; emphasis on integrating of technical and human factors in managerial decisions. Cr. 3. \$96.

- a. T. Th. 8:00-9:15 a.m. Baker 15 Heinlein
 b. T. Th. 6:30-7:45 p.m. Baker 4 Heinlein

254. **ELEMENTS OF SUPERVISION.** Recognition of individual differences, preventing problems, handling grievances, directing employees. Cr. 2. \$64.

- M. 6:00-7:45 p.m. Lakewood Boros

257. **WORK MEASUREMENT.** Discussions and laboratory projects to develop skills in methods improvement, time study, analysis charting, balancing flow of work, and application of work standards to management decisions. Cr. 3. \$96.

- T. Th. 8:00-9:15 p.m. Baker 15 Uhlik

260. **OFFICE MANAGEMENT.** See **OFFICE ADMINISTRATION** 260.

*331. **LABOR PROBLEMS.** See **ECONOMICS** 331.

353. **PERSONNEL MANAGEMENT.** Labor market analysis, recruitment, selection, placement, training, merit rating, compensation practices, employee welfare, union relationships. Cr. 3. \$96.

- a. M. W. 8:00-9:15 p.m. Baker 15 Parker
 b. M. W. 8:00-9:15 p.m. Lakewood Boros

*367. **PRODUCTION SYSTEM CONTROL.** Design, implementation and control of production systems; emphasis on integrating work places and functions, communication mechanics; scheduling and control techniques. Cr. 3. \$96.

- T. Th. 6:30-7:45 p.m. Baker 15 Uhlik

372. **PRODUCTION MANAGEMENT III.** Systematic procedure for problem analysis and decision; proper integration of production control, industrial engineering, quality control, maintenance. Cr. 3. \$96.
 T. Th. 9:30-10:45 a.m. Baker 15 Cummins

380. **ELECTRONIC DATA PROCESSING.** Prereq: Statistics 219 and Accounting 104. Cr. 3. \$96.

- T. Th. 8:00-9:15 p.m. Baker 14 Munder

*384. **STATISTICAL QUALITY CONTROL.** See **STATISTICS** 384.

*391. **MANAGEMENT ECONOMICS.** Analysis of American industries; basic technologies, raw materials, requirements, dynamics of progress, capital requirements and markets. External forces analyzed and related to basic managerial problems. Prereq: Senior or graduate standing and Economics 202. Cr. 3. \$96.

- T. Th. 8:00-9:15 p.m. Baker 4 Heinlein

*395. **INDUSTRIAL RELATIONS.** Case study of dynamic situations. Integration of pertinent administrative principles and social disciplines. Prereq: Senior or graduate standing. Cr. 3. \$96.

- M. W. F. 9:05-9:55 a.m. Baker 15 Dahl

MANAGEMENT

399. **BUSINESS POLICY.** Case analysis to develop perspective and judgment through application of principles learned in other courses. Prereq: Completion of all basic Business requirements. Cr. 3. \$96.

- M. W. F. 11:15 a.m.-12:05 p.m. Baker 215 Barloon, Dolva

MARKETING AND MERCHANDISING

(For courses in **REAL ESTATE** consult Division of General Studies Booklet)

201. **PRINCIPLES OF MARKETING.** Channels of distribution, middlemen, methods of sale, warehousing, transportation, financing, price policies, competition, unfair trade practices, regulation of marketing activities. A survey of current practices. Cr. 3. \$96.

- a. M. W. F. 11:15 a.m.-12:05 p.m. Baker 222 Hoffman
 b. M. W. 8:00-9:15 p.m. Baker 2 Cox

205. **SALESMANSHIP.** Economic and psychological relationships between customer needs, buying and product performance affecting sales of industrial goods, consumer goods, and intangibles. Cr. 2. \$64.

a. T. 8:00-9:45 p.m.	Baker 210	Steinwart
b. M. 8:00-9:45 p.m.	Lakewood	Dugas

*301. **INDUSTRIAL MARKETING.** Principles and practices. How industrial goods are sold, channels of sale, industrial sales organization, and policies. Prereq: M. and M. 201 or 340. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Baker 222	Lawyer
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302. **MARKETING POLICIES.** Cases in marketing problems, advertising and sales administration; channels of distribution and promotional strategy. Analysis of trends. Prereq: M. and M. 201. Not open to students who have completed M. and M. 202. Cr. 3. \$96.

M. W. 6:30-7:45 p.m.	Baker 2	Cox
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310. **CREDITS AND COLLECTIONS.** Nature and functions of credit, problems and duties of credit manager; credit information, terms, collection correspondence and methods. Prereq: M. and M. 201 and Accounting 103. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Baker 222	Hoffman
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*316. **TRANSPORTATION.** Development of transportation systems, costs, rate determination, financing and management of carriers, water carriers, air lines, pipe lines. Prereq: M. and M. 201 or 340 or Economics 202. Cr. 3. \$96.

M. W. 8:00-9:15 p.m.	Baker 217	Barloon
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*349. **SALES PERSONNEL AND SALES MANAGEMENT.** Organization of sales department; sales managers' functions; planning, forecasting, quotas, territories; selection and training; equipment, manuals, compensation; expenses; supervision; policies; control of distribution costs. Prereq: M. and M. 301 or 302 or 340. Cr. 3. \$96.

T. Th. 6:30-7:45 p.m.	Baker 222	Lawyer
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350. **ADVERTISING PRINCIPLES.** Psychological and economic factors determining advertising plans, appeals and media. Layout, typography and production methods. Prereq: M. and M. 201. Cr. 3. \$96.

M. W. F. 10:10-11:00 a.m.	Baker 219	Cox
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380. **ELECTRONIC DATA PROCESSING.** See INDUSTRY 380.

386. **QUANTITATIVE MARKETING ANALYSIS.** Prereq: Statistics 219, and one 300-level M. and M. course, and senior standing. Cr. 3. \$96.

M. W. F. 9:05-9:55 a.m.	Baker 219	Cox
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OFFICE ADMINISTRATION

254. **ELEMENTS OF SUPERVISION.** See INDUSTRY 254.

260. **OFFICE MANAGEMENT.** Comprehensive application of modern management principles and practices in the organization, operation, and control of office functions. Cr. 3. \$96.

M. W. F. 1:15-2:05 p.m.	Baker 220	Nixon
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359. **INDUSTRIAL PSYCHOLOGY.** See PSYCHOLOGY 359.

380. **ELECTRONIC DATA PROCESSING.** See INDUSTRY 380.

STATISTICS

219. **ELEMENTARY STATISTICS.** Collection, presentation, analysis and interpretation of numerical data; tabular and graphic presentation; frequency distribution; central tendency; dispersion, skewness; normal curve; reliability and significance; simple correlation. Cr. 3. \$96.

a. M. W. F. 8:00-8:50 a.m.	Baker 220	Reinke
b. T. Th. 12:50-2:05 p.m.	Baker 18	Reinke
c. M. W. 6:30-7:45 p.m.	Baker 214	Reinke
d. M. W. 8:00-9:15 p.m.	Baker 14	Rutemiller
e. M. W. 6:30-7:45 p.m.	Lakewood	Hutchinson

380. **ELECTRONIC DATA PROCESSING.** See INDUSTRY 380.

*384. **STATISTICAL QUALITY CONTROL.** Shewhart control charts for variables; fraction defective and defects; statistical aspects of tolerances; statistical sampling plans; organization and management of a statistical-quality-control program. Prereq: Statistics 219. Cr. 3. \$96.

T. Th. 9:30-10:45 a.m.	Baker 214	Reinke
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This form must be mailed on or before January 21, 1961. After that date registration must be made in person.

REQUEST TO REGISTER BY MAIL — CREDIT COURSES and DEGREE PROGRAMS

CLEVELAND COLLEGE • Newton D. Baker Memorial Bldg. • 10950 Euclid Ave. • Cleveland 6, Ohio

*Do you wish to become a candidate for:

- ☐ a Bachelor's Degree?
(Bachelor of Arts,
Bachelor of Science,
Bachelor of Business Administration)

in what field? _____

- ☐ a Certificate in Business Administration?

*(Degree Candidates must follow procedure outlined under
"Who Can Take Courses" on page 4.)

Are you enrolling under the benefits of PL 550 (Korean)?

☐ Yes; ☐ No.

Are you a full-time employee of WRU? ☐ Yes; ☐ No.

Do you wish to enroll as an auditor? (See Page 4.) ☐ Yes; ☐ No.

Do you wish an appointment with a Counselor to help plan
a program of study? ☐ Yes; ☐ No.

(These two items for new students only:)

High School attended: _____

No. years: _____ Grad. Date: _____

College(s) attended:

Name	Dates	Degree
_____	_____	_____
_____	_____	_____

Name _____
Last First Middle

Address _____
street & number city & zone

Telephone: business _____ ext. _____ home _____

Age: over 21? _____ If under 21, indicate date of birth _____

Occupation _____ former student of CC? _____ New student? _____

Other WRU Schools attended:

Year: _____ Degree: _____

Attention: Educational Counselor:

I have consulted the Schedule Booklet and would like to enroll for the following course(s):

Course No.	Course Title	Days	Hours	Place
(Fill in spaces below as in the example on the first line.)				
English 333	Shakespeare I	T-Th	7:00-8:15 p.m.	Clark 203
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Please mail me the necessary forms to complete my registration by mail.

Note: If you wish to enroll for 12 hours or more, or in a 400 level course, or as a transient,
you must do so in person at the Cleveland College Office.

